

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

January, 1951

Number 1

ASSOCIATION ACTIVITIES

COASTAL GEOLOGICAL SOCIETY MEETING

At the December 5th meeting of the Coast Geological Society, Gordon Bell of the Western Gulf Oil Company presented his paper entitled "General Geology and Development of the Huasna Area, San Luis Obispo County." Mr. Bell showed that this small sedimentary basin of less than 100 square miles in area contains rocks ranging in age from Jurassic to Recent within and upon its borders, and that a rather complete Miocene section appears to be represented. He pointed out the major structural features of the basin as being the two nearly parallel faults bounding the area on the east and west sides and the major down-fold comprising the Huasna syncline, with several anticlines developed near the basin edges. Nearly all of the anticlines have had one or more wells drilled upon them and have logged showings of heavy oil, although records show that only three wells, now abandoned, have actually produced a small amount of oil.

The history of drilling in the Huasna area from 1898 was traced, during which time more than thirty-five wells have been drilled. Possibilities for further exploration in the Huasna basin were speculated upon.

Mr. H. Fred Peterson spoke to the society on map reproduction. He distributed to the group a chart showing various types of map reproductions and an outline of his paper. The speaker pointed out the value of a draftsman who is acquainted with the above processes and who can save considerable redrafting expense by proper use of the various map reproduction methods.

SAN JOAQUIN VALLEY DINNER MEETING

Vincent W. Vandiver of Seaboard Oil Company gave 50 members of San Joaquin Geological Society the benefit of his broad knowledge of Canadian geology at a dinner meeting December 12 at the El Tejon. The talk was entitled "General Canadian Geology and the Redwater Oil Field, Alberta, Canada."

A large group remained after Mr. Vandiver's talk to inspect his exhibits of contour maps, rock samples and a photographic well log.

LOS ANGELES FORUM

Milton Loy, Schlumberger Well Surveys, discussed "Micrologging and Its Application in California" at the Edison Building on December 18. Harry Feder, C.C.M.O., reported on the "New Mexico Field Conference." Due to the December 18th deadline for this issue of the News Letter, the summary of the December Forum will appear in the next issue.

CHRISTMAS DANCE

The newly organized Petroleum Exploration Women's Club gave their first annual Christmas semi-formal dance at the Bakersfield Inn on December 8. Over 75 couples danced to the music of Bunky Valdez and his orchestra in the cleverly decorated Palm Room.

Among those responsible for the success of the party were Meses. Sam Stoneman, president, Rod Colvin, Robert Dyk, D. L. Kirkpatrick, W. D. Lewis, O. F. Van Beveren and Orrin Wangness.

LOS ANGELES LUNCHEON

The regular luncheon meeting of the Pacific Section was held December 7, 1950, at the Rodger Young Auditorium. Some 93 members enjoyed a very well illustrated talk by Dr. K. O. Emery of U.S.C. Dr. Emery discussed the highlights of the Mid-Pacific Expedition made last summer and sponsored by Scripps Institution of Oceanography and the Navy Sound and Electronics Laboratory.

The principal objective of the expedition, which was under the direction of Dr. Roger Revelle of Scripps, was to explore the floor of the Pacific Ocean. Correlative work in meteorology, biology, and studies of ocean temperatures and currents was accomplished by thirty scientists who represented Scripps, U.C.L.A., U.S.C., the U.S.G.S., and the Navy Lab. Two ships were used, both equipped for deep oceanographic work.

Probably the outstanding discovery of the expedition was that southwest of the Hawaiian Islands there exists a long narrow mountain range, now called the Mid-Pacific Mountains. This range is more than a thousand miles long, about a hundred miles wide, and has a maximum relief of about 14,000 feet. Hydrographic charts of the area have long shown isolated shoals, but the expedition proved that these shoals are not isolated peaks but rather summits of a long continuous mountain range. The tops of the peaks explored were flat, occurring at depths ranging only from 900 to 1,000 fathoms, and are apparently the result of wave action in shallow water.

On the return trip, one of the ships investigated the Gordo escarpment, which runs west from Cape Mendocino. Previously thought to be about 150 miles long, the escarpment has now been proved to extend over 1,000 miles westerly from the coast.

Everyone present thoroughly enjoyed Dr. Emery's talk, and the ensuing discussion period pointed out the many problems arising from the findings of the expedition.

OIL SCOUTS' CHRISTMAS PARTY

Nearly 200 men enjoyed the annual Christmas party given December 14 by the Central California Scouting Association at the Bakersfield Inn. A check of parlor games in progress after the buffet dinner revealed that not all of the funds would remain in possession of the Bakersfield scouts.

DISTINGUISHED LECTURER

Dr. Armand J. Eardley, Professor of Geology at the University of Utah, will be the Distinguished Lecture Committee's Speaker-of-the-Month during January, 1951.

Dr. Eardley will describe the tectonic framework of North America, the major tectonic elements of the North American continent and their evolution during the Paleozoic, Mesozoic and Cenozoic eras. Recent thought about the Atlantic and Pacific margins will be summarized and some original notions about the relation of North America to Eurasia over the Arctic and about North America to South America through the Gulf of Mexico, Caribbean and Central America will be presented.

Dr. Eardley will speak in Los Angeles at 7:00 p.m., January 2, 1951, in the General Petroleum Auditorium, 612 S. Flower St.; in Bakersfield, 7:30 p.m., January 3, 1951, at the Hotel El Tejon; in Santa Barbara 7:00 p.m., January 4, 1951, at Eaton's; and in San Francisco, 6:00 p.m., January 5, 1951, at the St. Julien Restaurant.

**EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

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PACIFIC PETROLEUM GEOLOGIST

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Editor:	Sam Stewart
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Activities:	J. Douglas Traxler
Personal Items:	Irvin Frazier
Selected Bibliography:	Dan Flynn
Calendar:	Richard E. Faggioli
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San Francisco Representative:	Willard Classen
Coast Representative:	Louis Taylor
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Next Deadline January 22, 1951

IN MEMORIAM

Chester Stock
(1892-1950)

Dr. Chester Stock, Professor of Paleontology and Chairman of the Division of the Geological Sciences at the California Institute of Technology, President of the Geological Society of America, member of the National Academy of Sciences, member of the American Association of Petroleum Geologists, and of many other honorary and professional societies, died at his home in Pasadena from cerebral hemorrhage on December 7. Only a few hours before he had attended a meeting of the Geology Club of the California Institute and had seemed to be in very much his usual health and spirits.

A native of California, Chester Stock grew up in the Bay area; attended the University of California at Berkeley; and obtained his Ph.D. there in 1917 under the late J. C. Merriam. Coming to the California Institute of Technology in 1926, shortly after the inception of the Division of the Geological Sciences, he at once entered upon a vigorous research program in his chosen field of vertebrate paleontology. Already well known for his studies of the distinctive and uniquely preserved vertebrate fauna from the La Brea tar pits, he not only continued intensive research in this fruitful area but pushed on to studies of vertebrate remains from the John Day of Oregon, from Gypsum Cave in Nevada, and from San Josecito Cave in Nuevo Leon, Mexico -- to name only a few of his important undertakings. Although vertebrate paleontology was his primary interest, he was no narrow specialist. As a director of the Los Angeles County Museum he did much to build up the whole science program there; as a Guggenheim Fellow of the Geological Institute of Mexico and later in more informal connections, he contributed significantly to the exploration program in that country and toward the building of international good will and of desirable scientific interchange; as a counsellor and administrator with broad scientific vision he contributed to the growth of the California Institute of Technology. In this last connection a statement from President DuBridge of C.I.T. is most apropos: "A man of great versatility and scientific imagination, he was one of the few vertebrate paleontologists who made effective correlation between the disciplines of biology and geology. He was always acutely conscious of the link between the fossil record and the aspects of earth history. He was, in addition, one of the outstanding men in the country in the leadership and encouragement of young research men. He was a great teacher, and was one of the best-loved men on the campus. His loss is a serious one, not only to his friends and to the Institute, but to his field of science."

His paleontological researches on the Moreno, Sespe, Tecuya, Caliente, Chanac, and Kern River formations have been especially helpful to California petroleum geologists. His active participation in our meetings has always been appreciated because of his excellent scientific contributions, his sound philosophy and his friendly humor.

We suffer a great loss in the death of Chester Stock, but will continue to lean on his scientific achievements and friendly inspirations.

NATIONAL G.S.A. MEETING

The annual meeting of the Geological Society of America was held November 16-18, 1950, at the Statler Hotel, Washington, D. C. The program was unusually interesting and varied, luring many California geologists to the nation's capitol.

The universities furnished the bulk of California's representation, with the roster including such distinguished names as Doctors Levorsen, Park, Waters, and Vanderhoof from Stanford; Dr. Turner from the University of California; Doctors Gutenberg, Stock, Sharp, Engel, Jahns, and Benioff from Cal Tech; Dr. Ken Emery from U.S.C.; and Doctors Crowell, Putnam, Murdoch, Tunell, and Bramlette of U.C.L.A.

Field trips on the two days preceding the meeting were as follows: (1) An excursion, under the leadership of Dr. Ernst Cloos, to Bear Island in the Potomac River, to see a particularly well-exposed metamorphic section; (2) A trip also with Dr. Cloos to inspect Paleozoic and pre-Cambrian rocks of the South Mountain anticlinorium in the vicinity of Harper's Ferry, West Virginia; and (3) A two-day trip to see Quaternary and Tertiary sediments of the Coastal Plain.

Special excursions during one afternoon of the meeting took members on conducted tours through (1) the Geophysical Laboratory and Department of Terrestrial Magnetism; (2) the Map Reproduction and Topographic Photogrammetry Division of the U.S.G.S.; (3) the Mineral Products Division of the Bureau of Standards and Geophysical Laboratory; (4) the Crystal Branch of the Naval Research Laboratory; (5) the Hydraulics Laboratory of the Bureau of Standards and Beach Erosion Board; and (6) the mineral and paleontological collections of the U.S. Museum.

Dr. Chester Stock (whose recent death is sad news, indeed) was honored by being elected President of the Society for the coming year. Norman L. Bowen was elected Roebling Medalist; Francis Birch, the Arthur L. Day Medalist; and Morley E. Wilson, the Penrose Medalist.

PERSONAL ITEMS

At the Coastal meeting the other night Irvin Frazier was telling about finding (HA HA) a roll of film on the street. After having it developed, he discovered a complete set of luscious nudes were included on the film. Irvin, if you edit this out I'll complain to the authorities. (L.T.)-(ED. NOTE: What can I do? Anyway, it was a #620 roll - Know anybody who uses that size? I.F.)

The Continental Oil Company has just announced several promotions. Roy M. Barnes, formerly Regional Geologist for Conoco, has been appointed Regional Manager of Exploration, replacing Olen Lane, who has been promoted to the position of Regional General Manager. J. B. Anderson, former assistant Regional Geologist, succeeds Mr. Barnes as Regional Geologist. Rufus Smith has been promoted to the newly created position of Assistant to the Regional Geologist.

Floyd Johnson of Honolulu is finding that field work in Nevada presents many unusual problems. He recently discovered the body of a prospector who had died in the hills. On another occasion, Floyd was trying to get a cut on some "oil sand" with every known solvent including saliva, then found he was working with bat guano.

Pete Gardett of General Petroleum is back here on a two-week vacation, following his summer sojourn in Wyoming. Effective January 1, Pete will be located here again, with Vic King resuming his former assignment with General Petroleum at Casper, Wyoming.

Bob Ortalda of Standard has bought a new house in Siete Robles, Ojai, in preparation for an addition to the family. Bob hopes the arrival (the baby, not the house) will be in 1950, as an additional tax deduction is always welcome.

Bob Williams has a new house in Santa Barbara. The acoustics are reported perfect, by a group of the boys who tested them recently until the wee hours, after the Coastal meeting. The report from Mrs. Williams has not yet been received.

Betty Cappelle, of Shell's geological office in Los Angeles, is being married on February 3 to Joe Noble, now a psychology major at U.S.C. (Congratulations, Joe!) They are buying a home at Hermosa Beach.

Bessie Glenn of Shell's Christmas office in Los Angeles wants a white Christmas, so she will spend her vacation then at her former home in Idaho.

Ed McDowd of Shell recently made a trip to Buttonwillow on a hunting expedition. He reports net results: one hawk, one duck, and one sore shoulder.

Continental Oil Company's Ventura headquarters shook recently when Dick Haines came out sporting a new company car colored BROWN. Is there any special significance to this, or is it just camouflage?

Art Huey was seating himself last week, at the Valley Scouts' Christmas Party, with his plate heaped high with food from the wonderful buffet selection, when Snooky Chambers tried to pass him a piece of bread. Art's amazing response: "No thanks, Snooky, I'm on a diet."

Dan Flynn of General Petroleum gave out cigars to celebrate the arrival of Kathy, a 6½ lb. daughter born November 26. Dan already has a 2-year-old son, Bruce. Dan is on vacation until January 1, building a new home and doing the painting himself.

Arch Warne, with Richfield at Bakersfield, reports the arrival of Betty, 8 lb. daughter born December 8.

Bob Smart, ex-UCLan with General Petroleum in Durango, Colorado, is reportedly anxiously awaiting the arrival of a new dependent.

TWINS at the Pete Hall barn, Ojai Ranch. One of his goats has been kidding again.

Talk about coincidences: December 12 should go down as Geologists' Day in the Bureau of Vital Statistics.

Charlie Bishop of Texaco at Bakersfield announced the birth of a daughter, Debra, his first offspring, on that date.

Jack Oney of Honolulu, Bakersfield, passed out (cigars, that is) upon arrival of Lou Ann, a daughter, his first offspring, on that date.

Fred Nicolai of Texaco at Santa Cruz, announced the birth of Carolyn Anita, a daughter, his first offspring, the same day. Fred is still recuperating from an auto accident, but thinks that's secondary now.

Homer Steiny served as Santa Claus (and who could fill the part better?) at the University Club Christmas Party on December 16. Did you miss this opportunity to send your Christmas list to Santa on a penny postcard?

Paul Roth of State Exploration Company has been elected president of the Oil Map Association for 1951. Other officers are: H. F. Peterson, Shell, vice president; B. N. Coolsby, Amerada, treasurer; and Mary Frazier, Capital Company, secretary.

A wildcat gas discovery in Santa Barbara County appeared in the making as Bureau of Reclamation - Pacific Lighting Co. No. 1 blew in recently from a depth of 2 feet! A Pacific Lighting gas line was tapped while the Bureau was doing some corsholing for the Tecolote Tunnel project.

Max Krueger, long time member of the Pacific Section and now a consultant in Laramie, Wyoming, was a recent candidate for the legislature from his county. Max filled out Homer Steiny's return postcard to give the election results, checking the box score to show he came in third. He explains that the county, being a railroad county, went Democratic, period, period. Max still insists the fishing, duck hunting and big game hunting there are good - Democrats or not.

At the Continental-Standard - Meridian Unit No. 1 core party on November 29, attended by some 35 geologists (a mixed group of Californian and Rocky Mtn. varieties) not only did Continental furnish beer, but when demand was slack, passed around salted peanuts to build up the group's thirst. The choicest samples of the cores were snaffled up by the tentacles of Union's "sextopus" (a six-armed octopus) consisting of Johnny Hazzard, Bill Moran, and Joe Dockwiller, who shocked the genteel Rocky Mountain geologists by their behavior.

THE OFFICE CHRISTMAS PARTY



Carlton M. (Kit) Carson of Tide Water is taking a three-week siesta in and around Palo Alto. He plans to add a few more specimens to his mineral collection while there.

Doug Hastings, Standard Oil, has been transferred from Coalinga to Salt Lake City.

Has anyone a reasonable explanation for Bob Rist of Standard displaying a beautiful shiner shortly after returning from the Basque section of Bakersfield?

Salinas Valley report: When one learns that The Texas Company's Eade No. 1 wildcat is a no dope hole, no questions are asked. Could this be because of the size of Jess Parsons, geologist sitting on the well?

Carroll M. Wagner, Director of Exploration for General Petroleum, has returned to his desk all smiles following his extended trip to England, Germany, and the Scandinavian countries. Carroll reports he came within five miles of the Iron Curtain, and felt that was close enough.

Phil Kistler, Big Horn Basin district geologist for Seaboard, is in Los Angeles for a two weeks' stay. Phil now lives in Cody, Wyoming, and is reputedly one of the Rocky Mountains hardiest hunters. He even hunts bear in the dead of winter!

CALENDAR

AAPG Distinguished Lecturer, Armand J. Eardley, Univ. of Utah, "The Tectonic Framework of North America," Jan. 2, 3, 4, and 5:
 Jan. 2, 1951; Tues. 7:00 p.m., AAPG, Pacific Section, General Petroleum Auditorium, Los Angeles.
 Jan. 3, 1951; Wed. 7:30 p.m., AAPG San Joaquin Geological Society, Dinner Meeting, Hotel El Tejon, Bakersfield.
 Jan. 4, 1951; Thurs. 7:00 p.m., AAPG, Coastal Geological Society, Dinner Meeting, Eatons Restaurant, Santa Barbara.
 Jan. 5, 1951; Fri. 6:00 p.m., AAPG, Northern Calif. Geological Society, Dinner Meeting, St. Julian Restaurant, San Francisco.
 Jan. 4, 1951; Thurs. 6:30 p.m., CNGA, Dinner Meeting, Rio Hondo Country Club, Downey: Frank Morgan, "Cuyama Valley."
 Jan. 15, 1951; Mon. 7:00 p.m., API, San Joaquin Valley Chapter, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: M. B. Standing, "Reservoir Fluids, Part II."
 Jan. 16, 1951; Tues. 8:00 p.m., API, Los Angeles Basin Chapter, Shell Recreation Hall, Long Beach: Humble Oil & Refining Co. Color Movie, "Trouble Lurks Below;" Speaker to be announced. A movie on combatting a wild well on fire.
 Jan. 16, 1951; Tues. 8:00 p.m., API, San Joaquin Valley Chapter, Bakersfield Inn, Bakersfield: Speaker to be announced.
 Jan. 17, 1951; Wed. 7:00 p.m., API, Coalinga-Kettleman Chapter, Dinner Meeting, Polvadero Country Club: Speaker to be announced.
 Jan. 19, 1951; Fri. 7:15 p.m., SEPM, Edison Bldg. Auditorium, 601 W. 5th, Los Angeles: Dr. Fred Phleger, "Some Recent Studies of Foraminifera Ecology."
 Jan. 22, 1951; Mon. 7:00 p.m., AIME, Petroleum Branch, General Petroleum Auditorium, Los Angeles Mortimer Kline, "Legal, Legislative, and Lease Problems Relative to Water Flooding."
 Jan. 29, 1951; Mon. 7:00 p.m., API, San Joaquin Valley Chapter, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: W. T. Cardwell, "Fluid Mechanics, Part I."

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BIBLIOGRAPHY OF RECENT PUBLICATIONS

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SCIENTIFIC PUBLICATIONS - JOURNALS & BULLETINS

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"Geology of the Eastern Venezuela Basin," by Hollis D. Hedburg. pp. 1173-1216.

* "Sea Bottom off the Coast of California," by Andrew C. Lawson. (A review of Special Paper 31, G.S.A., by Shepard & Emery.) pp. 1225-1242.

* "Cenozoic Marine Climates of the Pacific Coast," by J. Wyatt Durham. pp. 1243-1264.

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

Mineral Commodities of California. Bull. 156, 1950.

* "Petroleum," by Gordon Oakeshott. pp. 85-110.

TRADE JOURNALS & MISCELLANEOUS MAGAZINES

Petroleum Engineer, December, 1950

* "Anti-Earthquake Damage Operations," by D. L. Roberts. pp. B-11 - B-14.

"Treasure in the Depths," (Review of Deep Drilling) by Ernestine Adams. pp. A-33 to A-45.

Drilling, October and November, 1950

"Application of Micrologging," Parts I & II, by M. Martin. October, pp. 36-40. November, pp. 32-35.

The Mines Magazine - 15th Annual Pet. No., October, 1950

"Notes on the Construction of Geologic Scale Models," by A. N. McDowell and Travis J. Parker. pp. 75-79.

* Pacific Coast Geology.



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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

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February, 1951

Number 2

ASSOCIATION ACTIVITIES

S.E.P.M. MEETING

Dr. Fred B. Phleger, Scripps Institution of Oceanography, summarized "Recent Advances in Ecology of Foraminifera" at the S.E.P.M. meeting, January 29, 1951. Work on foraminifera ecology at Scripps Institution is done with the following principles in mind: (1) Ecology is approached from the viewpoint of distributions and correlations with various aspects of the marine environment, and not from the experimental point of view. (2) The work is quantitative. Total populations per unit living space are analyzed and species are studied as per cent of total population. (3) It is recognized that foraminifera have two ecologic habits, planktonic and benthonic, and should be treated separately. (4) The results are applied to oceanographic and geologic problems.

Samples have been collected from the Gulf of Maine, Cape Cod Bay and Long Island Sound. The population patterns of foraminifera species form distinct mappable units. Principal causes for facies distribution are believed to be related to water depth, salinity, temperatures, currents, light penetration and the supply of mineral nutrients.

In summary, Dr. Phleger stated that the quantity of foraminifera obtained in the samples is the key to relative rates of organic production, which in turn is useful in estimating relative rates of deposition of sediments. Depth distribution has been used to discover displaced sediments and changes in sea level. In geologic or stratigraphic correlation, it is not valid to compare faunas of the same environment. The most valid ecologic type for correlation is the form with no ecologic restriction. It will be possible to reconstruct the detailed environments of a sea on the basis of this type of ecology when sufficient information is available.

THE NATIONAL SCIENTIFIC REGISTER

The Pacific Section of A.A.P.G. has been asked to assist in the enrollment of all west coast geologists and geophysicists in the National Scientific Register being compiled by the National Security Resources Board in Washington, D. C. The American Geological Institute is pushing the project and about February 1, 1951, will have registration forms ready for distribution to all members of A.A.P.G., as well as other affiliated societies such as S.E.G., S.E.P.M., and the A.I.M.M.E. In view of the national emergency, all members are urged to fill out and return the registration forms promptly.

The results of the National Scientific Register will be utilized by:

1. Scientific Advisory Committees in the Selective Service System in the matter of appeals for deferment.
2. The National Security Resources Board to determine the available scientific manpower for both military and civilian mobilization.
3. Government agencies to identify personnel with specialized training for unusual work requirements.

Anyone desiring more detailed information is referred to the December issue of the A.G.I. News Letter, which contains a complete description of this project.

FORUM

Mr. Harry Feder presented a profusely illustrated summary of the first New Mexico Geological Society Field Conference, December 18, 1950, at the Edison Building Auditorium.

Mr. Feder stated that the San Juan Basin covers 12,000 square miles in the Southern Colorado Plateau area. The basin lies mostly in New Mexico and Colorado, with fringe edges extending into Utah and Arizona. In general, the San Juan Basin is a broad, gentle structural downwarp, mostly the result of post-Cretaceous deformation.

It is possible to correlate the rock units over the entire basin as well as into the adjacent Colorado Plateau area. The basement complex is pre-Cambrian in age. The overlying sediments range in age from upper Cambrian to lower Tertiary and range in thickness from 10,000 to 25,000 feet.

Upper Cretaceous sediments are the principal oil and gas producers in the basin. Current exploratory interest centers on upper Cretaceous stratigraphic accumulations of gas in the north-central area.

Mr. Feder suggested the following future possibilities for accumulation: (1) Pennsylvanian horizons that are oil and gas producers in the northern San Juan Basin remain untested, particularly in structures existing in the southern part of the basin; (2) Morrison formation (Jurassic) also produces oil and gas in the northern portion of the basin and could be productive to the south; (3) The Cretaceous offers many possibilities throughout the basin. Many good structures and stratigraphic traps remain to be tested or have had doubtful tests. The Dakota, however, has proved disappointing in many wells in the north San Juan Basin due to low permeabilities.

Mr. Milton E. Loy, Schlumberger Well Surveying Corp., discussed "Micrologging and Its Application in California." In conventional electrical logging the spontaneous potential log is used to delineate the permeable bed. When the formations are much more resistive than the mud, for example limestone formations and wells drilled with salty muds, or in the case of interbedded zones, the self-potential is quite rounded. In these cases the self-potential log generally gives the approximate location of the permeable zones but it cannot be used for an accurate determination of the boundaries of each permeable bed.

The "MicroLog" has been developed primarily as a means for the accurate determination of the permeable beds where the self-potential alone does not give a satisfactory answer. The "MicroLog" at present time consists of two short spacing resistivity curves, a 2" Normal and a 1½" Lateral. The electrodes are mounted in a rubber pad and by a suitable spring assembly the pad is applied to the wall of the bore hole. This pad application is essential for useful curves since micro spacings recorded from the customary electrical logging devices would be greatly affected by the bore hole.

The micro volumes measured by the "MicroLog" permit detailed logging of the formations, as well as the detection of mud cake on the face of the permeable zones. Since the mud cake is a greater percentage of the microvolume for the 1½" Lateral than for the 2" Normal, and since the resistivity of the mud cake is usually less than the resistivity of the formation behind the mud cake, the microcurves are separated. A positive separation occurs in front of those zones which are permeable. Both curves, however, will usually show a value close to the mud cake resistivity.

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Next Deadline February 19, 1951

Mr. Loy discussed several examples of Micro-logging in consolidated and unconsolidated formations, including several from California. The California examples illustrated the typical response in sand-shale-shell sections and fractured Miocene siliceous shales. The "MicroLog" should prove to be valuable in sand-shale reservoirs as well as the heretofore difficult analysis of fractured shale zones, since it gives an accurate detailed log of permeable zones.

SPECIAL CARS TO CONVENTION

President Frank Carter has appointed a Transportation Committee to arrange for a train to the National Convention in April. The Committee is chairmanned by Homer Steiny. Ably helping him oil the wheels and fuel the engine are Bill Kleinpell, Clifton Johnson, Harvey Lee, Harold Rader, and Irv Frazier. Present planning calls for a route that will eliminate getting up at 3 o'clock in the morning in Kansas City to change cars. This has been accomplished by using the Rock Island through cars, leaving Los Angeles on the Golden State Limited at noon Friday, April 20, and arriving at St. Louis at 8:00 a.m., Sunday, April 22, all without change of cars. Three special cars will be provided to accommodate about 70 people.

PETROLEUM CLUB

The names of several well-known Pacific Section members appear prominently on the new slate of officers of the Petroleum Club of Los Angeles. Rollin Eckis has been named president of the Petroleum Club for the current year, with W. H. "Bill" Geis as vice president, while Roy M. Barnes and Bill Geis are newly elected members of the Board of Directors.

DISTINGUISHED LECTURE

During the first week in January, 1951, Dr. Armand J. Eardley presented a discussion on the tectonic elements of North America to the various groups in the Pacific Section. Paleogeographic maps and tectonic maps of each epoch were shown.

Dr. Eardley pointed out that the isolated shield areas in Canada, Greenland, Northern Europe and Siberia should be classified as one large shield area. Polar projections of the Arctic area revealed these northern shield areas are separated by relatively small and shallow seas.

The speaker discussed the probable extension of the Laramide and Nevadian types of deformation into Central America and Cuba.

PACIFIC SECTION DIRECTORY

As most of the members know, a roster committee is gathering individual pictures and biographical sketches of the members to be included in a directory of the Pacific Section. About 400 members now have their pictures and data cards on file with the committee. A campaign is underway to obtain pictures of the remaining members. Before the next meeting of the San Joaquin Valley Geological Society in Bakersfield, a photographer will be present to snap pictures. Also in Los Angeles, between the hours 4:30 to 7:00 p.m., before the next Forum meeting in February, a photographer will be present to take pictures. This will be the last opportunity for members to have their picture taken by the group photographer. A uniformity of picture quality and size will greatly keep down the engraving costs and help to make it possible for us to publish the directory at a nominal cost. A one dollar deposit, collected at the time of the picture-taking, is credited towards the total cost of the book, which is estimated to be \$2.50 or under.

For those outside of the Bakersfield and Los Angeles areas who do not as yet have a picture on file with the committee, you will presently receive a letter of instructions and a card to fill out. These members may mail in their picture when the card is returned. A one dollar deposit should accompany the picture as we have no A.A.P.G. funds to pay for copying or reducing the pictures. The committee can use any size picture or snapshot, but a picture with a full head view that will trim to 3/4" x 1" is the standard size to be used in the book and this size is preferred.

Art Huey, P. O. Box 810, Long Beach, is chairman of the roster committee.

PERSONAL ITEMS

Irv. Schwade, on New Year's day, achieved the ultimate in TV appreciation; also in "place utility," to borrow a term from economics. He bundled his TV set into the back of his car, drove from Bakersfield to Burbank, set up there from 9:00 a.m. to 9:00 p.m., enjoyed the parade, game, etc., then drove back home.

Ted Bear and Stan Seigfus are among the latest newcomers to the La Canada-Foothill region, each having moved into a new home there recently.

Bill Mackersie of Kern Oil Company reports February 16 for active duty with the Marines. He has been in the Marine reserve.

Jim O'Neil of Independent Exploration Company, who also has been in the Marine reserve, is due to report for active duty in the next 2 to 3 weeks.

Bob Erickson, who has been with Standard Oil at La Habra, reports about February 1 at Quantico, Virginia, for active duty with the Marines.

C. E. Van Gundy, formerly with the C.C.M.O., is now working for The Texas Co. as a geologist in the Los Angeles Basin.

Tom Fitzgerald and Bill Kleinpell attended the Los Angeles meeting of the Oil Club early this month. They were seen at Tip's on their return trip, but no report has been had on whether they reached Bakersfield.

Bill Thomas of Shell seems to be making more frequent trips to San Francisco. Last report had him checking the structures in the Snake Pit there.

After the last Santa Maria barbecue, Consultant John H. Wents was seen crawling out of a window at the Santa Maria Inn to fix a noisy drain pipe. (That's his story, and he's stuck with it!)

Jim Hamill of The Texas Company has returned from a quick plane trip to South Dakota on emergency personal business. He left on New Year's day, and arrived there in 20 below temperatures. His return flight took him over Grand Canyon, Las Vegas, and Lake Mead.

There is still some hope, at the time of going to press, that Don Weaver, production manager for Wilshire, will be found safe. He has been missing 4 days in an airplane en route from Denver to Casper, Wyoming.

Stan Wissler, in order to devote more time to specific geologic problems, has assumed the duties of Research Geologist, Pacific Coast area, for Union Oil Company of California.

Continental Oil Company has announced the promotion of W. H. (Bill) Corey to the position of Regional Research Geologist. His new sphere of activity will cover all of California.

Pete Gardett has been made Assistant Supervisor of California Operations (Geological) for General Petroleum. He will have Los Angeles headquarters.

Ben Lupton is now permanently assigned to the Los Angeles office of General Petroleum as Los Angeles District Geologist. Ben is now in a 30-day escrow on a home in San Marino.

Kenneth Krammes resigned early this month as district geologist for The Texas Company at Bakersfield. He now is in the employ of Independent Exploration Company at Bakersfield.

Tom Gross of Standard has left the wilds of the Idaho-Utah area to help Alex Tarbet in the Salinas Valley for a few months. Tom hails from UCLA.

Mia Ramsaur has returned to work for Standard Oil Company as geologist in the Los Angeles office.

Joe Parmenter, formerly of Wilshire Oil Company, has joined the firm of C. E. Houshin at Bakersfield, and will be in charge of oil and gas interests.

Paul Hayes has moved from Bakersfield to Southern California Petroleum Corporation's Los Angeles office.

Bill Winter has been transferred from Superior's Amarillo, Texas, office to Bakersfield.

Joe Haverfield of Continental's Elko, Nevada, division, will spend the winter working out of the Bakersfield office.

Union Oil Company has opened a temporary exploration office in the A. S. Brown Building, 1104 San Fernando Road, Room 206, San Fernando. Harry Feder, lately with the C.C.M.O. Company, has been employed by Union and will be at this office for a while; then in Nevada.

Continental Oil Company's new geological exploration office in Ventura is at 26 North Fir, phone Miller 3-9055. R. B. (Dick) Haines is in charge here. F. E. (Frank) Minshall is in charge of geological exploitation. His address: P. O. Box 451, Ventura, phone Miller 3-9941.

Last month's letter reported Continental Oil as furnishing the beer for the core party at Continental-Standard's core party at the well in Nevada. To get Bill Burnham off the hook and to clear all expense account records for benefit of S.O. Co. auditors, it is duly recorded here that Standard stood half this expense.

Lowell Saunders has announced his candidacy for the position of City Councilman, City of Bakersfield. He modestly states that he just believes he can do a good job for the Bakersfield citizens. Lowell will certainly get the oil industry vote, solid.

Ted Lee and Vince Vandiver, of Sunray and Seaboard, respectively, left recently on a 3-week Canadian inspection trip.

Richard B. Palmer has been transferred by The Texas Company from Wyoming to serve as geologist in the district office at Bakersfield.

John Fackler of C.C.M.O. is in the Santa Fe Hospital in Los Angeles recovering from a minor operation. He should be in good shape shortly. Some wit asked John if he were having Fungus. John's reply: "No, I'm having them removed."

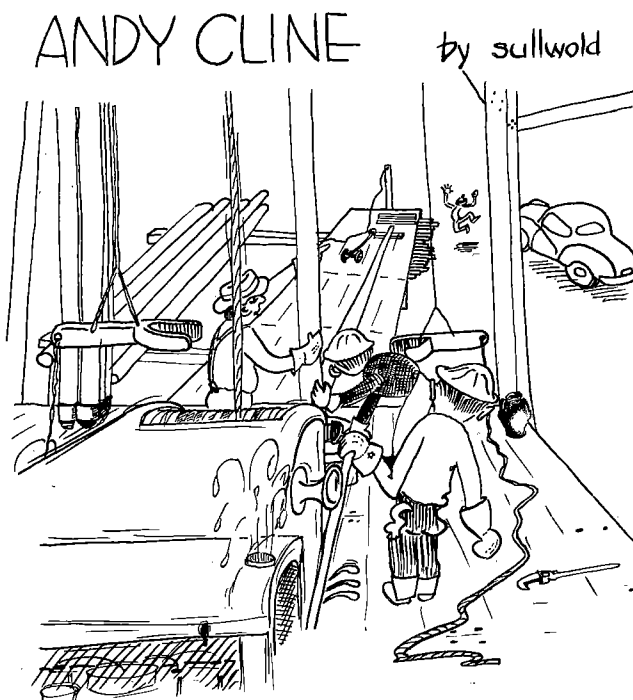
Pete Hall, resourceful treasurer of the Coastal Society, recently raffled off a fifth of Harper for the benefit of a fund for the Society's fall shindig. The bottle was won by Frank Reynolds of Wilshire, who had the fleeting honor of being owner for a few minutes anyway.

Mr. and Mrs. Bill Buckley, of Conoco, announced the arrival of Carol Ann, their third daughter, weight 7 lbs. 12 oz., on December 17.

Mason Hill has acquired a new Pontiac station wagon in order to transport his basketball team to their out-of-town games.

A. J. MacMillan, Coastal District Geologist for The Texas Co., has now moved his office to the Edwards Theatre Building, P.O. Box 432, Santa Paula.

Lloyd Lewis of Shell's Sacramento office is on an extended trip to the Hague.



"LOOK... HE FOUND ANOTHER FOSSIL!"

Dave Sears of Shell is in the market for a positive "cover-upper" of skunk perfume. He recently evicted a skunk from the Sears home in Paso Robles, and still has reminders of the visitor's stay.

Operative 76 reports that Richfield's Nevada geological staff now is firmly entrenched in its new offices in Las Vegas, next door to a professional modeling agency. It is said the purchasing department wonders why the geologists have been ordering so many keyholes.

We are happy to report that Fred Nicolai of The Texas Company, in the Santa Cruz Hospital, has recovered sufficiently to sit up in bed and do some work.

Wayne Loel is another member of the Escrow-of-the-Month Club of San Marino, and will soon be residing at 1505 Chelsea Road.

Milt Lewis is once again challenging all comers at dominoes following a short stay in the hospital occasioned by a double-header operation. The scars may be seen by appointment only.

CALENDAR

Feb. 1, 1951; Thurs. 12:00 noon, AAPG, Luncheon, Roger Young Auditorium, Los Angeles: Stanley Boicourt, "Review of Radioactive Methods of Geological Age Determination."

Feb. 1, 1951; Thurs. 6:30 p.m., CNGA, Dinner Meeting, Rio Hondo Country Club, Downey: C.H. Compton: "Industrial Waste Water Disposal."

Feb. 8, 1951; Thurs. 6:30 p.m., AIME, Jr. Petroleum Group, Dinner Meeting, Rio Hondo Country Club, Downey: Speaker to be announced.

Feb. 12, 1951; Mon. 7:00 p.m., API, San Joaquin Valley Chapter, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: W. T. Cardwell, "Fluid Mechanics, Part II."

Feb. 13, 1951; Tues. 7:00 p.m., AAPG, San Joaquin Valley Geological Society, Dinner Meeting, Hotel El Tejon, Bakersfield: John Wells, "Elk Hills Oil Field;" O. W. Porter, "Belgian Anticline Oil Field."

Feb. 19, 1951; Mon. 7:00 p.m., AAPG, Forum, General Petroleum Bldg. Auditorium, 612 S. Flower, Los Angeles: Glen Ferguson, "McDonald Anticline Discovery;" Dr. Rene Engel, subject will concern Differential Thermal Analyses and their use in correlation.

Feb. 20, 1951; Tues. 8:00 p.m., API, San Joaquin Valley Chapter, Standard Oil 11-C Camp: Speaker to be announced.

Feb. 23, 1951; Fri. 7:15 p.m., SEPM, Meeting place to be announced: Dr. Orville L. Bandy, "Trends in Foraminiferal Research."

Feb. 26, 1951; Mon. 7:00 p.m., API, San Joaquin Valley Chapter, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: R. L. Parsons, "Fluid Mechanics, Part III."

Feb. 28, 1951; Wed. 12:00 noon, AIME, Mining Branch, Luncheon, Los Angeles Chamber of Commerce: Speaker to be announced.

Feb. 28, 1951; Wed. 7:00 p.m., San Joaquin Valley Oil Assn., Dinner Meeting, Bakersfield Inn, Bakersfield, Bruce K. Brown, PAD: "Petroleum Administration for Defense."

PACIFIC PETROLEUM GEOLOGIST
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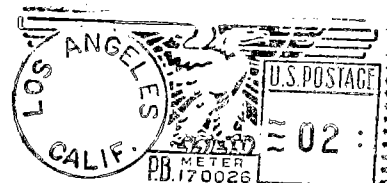
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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

March, 1951

Number 3

ASSOCIATION ACTIVITIES

FEBRUARY LUNCHEON

The February luncheon of the Pacific Section was featured by an excellent talk by Mr. Stanley Boicourt, U.C.L.A. graduate student. Mr. Boicourt discussed the various methods of age determination by radio-active disintegration.

The basic formula or rule - time since crystallization from a magma equals the amount of disintegration product divided by the rate of production of the product - is used in age determination by radio-active methods. Four general requirements must be met to make this rule hold true: (1) known, systematic rate of disintegration; (2) accurate sampling and measurement; (3) absence of disintegration product as a primary constituent; and (4) no addition or subtraction of disintegration product or its source during history of the sample.

Six methods of age determination offer the most promise at present; namely, the lead-uranium, lead isotope ratio, helium-uranium, strontium-rubidium, carbon isotope, and uranium-ionium methods. Mr. Boicourt discussed the limitations, accuracy and age range of each method.

FORUM

Two very interesting lectures were presented at the Forum on February 26. Mr. Glenn Ferguson, consultant, discussed "The McDonald Anticline Discovery and Subsequent Development."

The McDonald anticline is located to the northwest of the McDonald anticline field so that the producing area is located on echelon to the outcrop area. Production is from the Phacoides sand, the Button Bed sand, a 40' sand above the Button Bed called the Layman 2 sand, and the Agua sand.

Mr. Ferguson exhibited cross sections of the area and discussed electric log correlations. The productive area of the McDonald anticline is small. Apparently the field is of water drive type and the wells are not expected to decline materially until the appearance of water.

The Oceanic sand and upper portion of the Kreyenhagen has been truncated and overlapped by the Phacoides in a northwesterly direction. The Point of Rocks sand is found at the base of the Tulare, indicating a great period of erosion in that interval. It is thought that present oil accumulation results from late (Pliocene or Pleistocene) faulting and perhaps insufficient time has elapsed for a larger accumulation of oil.

Dr. Rene Engel, Oil Properties Consultants, Inc., discussed "The Use of Differential Thermal Analysis in Stratigraphic Correlation."

The method of differential thermal analysis consists of simultaneously heating in a furnace two substances, one of which is an inert material (Al_2O_3) and the other the sample to be analyzed. As the furnace temperature is raised, the temperature difference between the two substances is recorded.

Generally speaking, the endothermic peaks are more characteristic than the exothermic ones. Moreover, the lower temperature portion of the curve below 400°C. is usually more erratic and less significant than the portion between 400° and 1000° C. Changes in the shape of the curves may be abrupt and correspond to a definite change in lithology.

A good deal more work is needed to perfect the method and realize the full significance of the DTA curves. Operational controls such as inert furnace atmosphere may permit, eventually, lithologic facies determinations. Satisfactory agreement between paleontologic markers or breaks and DTA breaks has been accomplished.

MORGAN NEW A.A.P.G. HEAD

The long-awaited results of the election of national A.A.P.G. officers for the coming year were announced recently, with a Pacific Section member capturing the presidency. Frank A. Morgan, Richfield's Vice President in Charge of Exploration, will lead the Association in 1952, and it is to be hoped that his election will result in a national A.A.P.G. Convention for California in 1952.

Lewis G. Weeks, seen here recently in the role of Distinguished Lecturer, was elected vice president of the Association.

Robert H. Dott, Director of the Oklahoma Geological Survey, was elected secretary-treasurer, and Dr. Kenneth Landes of the University of Michigan is the newly elected editor of the A.A.P.G. Bulletin.

DISTINGUISHED LECTURER

Relationship of major tectonics to the history of the earth's water and atmosphere will be presented by Dr. William W. Rubey before the Pacific Section, A.A.P.G. Dr. Rubey will lecture in Los Angeles March 6, Santa Barbara March 7, and Bakersfield March 8, 1951.

The lecture, entitled "The Development of the Ocean and Atmosphere," will deal with composition and origin of sea water and atmosphere. Several lines of tectonic evidence will be presented which could account for the nearly constant composition of sea water since early geologic times.

Dr. Rubey received his training at the University of Missouri, Johns Hopkins and Yale. He has been associated with the U.S. Geological Survey since 1920 and is now Research Geologist for the Survey. He is the immediate past president of the Geological Society of America and this lecture was first given in Washington as his retiring address.

Dr. Rubey will speak before 27 local societies from Toronto, Canada, to Los Angeles, California.

S.E.P.M. MEETING

Dr. Orville L. Bandy, University of Southern California, discussed "Trends in Foraminiferal Research" at the Edison Building Auditorium, Feb. 16. A brief history of the development and diversification of foraminiferal studies was recounted as a preliminary to introducing the more recent trends. The modern developments were subdivided into those which are primarily of taxonomic nature and those which figure more directly in with the economic utilization of foraminifera. The first category included the use of growth sequences in species analyses, micro-structure of the test wall in phylogenetic studies, and the use of toothplates as an aid in taxonomic work. It should be emphasized here that taxonomic features are of considerable stratigraphic value and that studies of such features are to be recommended highly. The contributions of Professor Allan Wood and Dr. J. Hofker to these studies were discussed. The second category of investigation involving the use of foraminiferal studies from an economic standpoint included two phases, one stratigraphic and the second ecologic. Concerning the first phase, a brief sketch was given of the problems being undertaken at S.C. As for ecology, considerable time was devoted to illustrations of correlating frequency changes of foraminifera with changes in the physical environment. By plotting the curves for the physical conditions alongside those for frequency changes of the faunas, it was noted that median grain size and temperature of the water play minor roles in determining distributional patterns in shallow water areas of the Gulf of Mexico. Salinity, turbidity, and the quantity of bottom plants may be the controlling factors.

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PACIFIC PETROLEUM GEOLOGIST

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Next Deadline March 19, 1951

SAN JOAQUIN VALLEY GEOLOGICAL SOCIETY

Nearly 100 members, including a large contingent from Los Angeles, attended the February 13 dinner meeting of San Joaquin Valley Geological Society at Hotel El Tejon.

Mr. John Wells of Standard Oil Company opened the program with a talk on the history of development, stratigraphy and structure of Elk Hills Oil Field. Of special interest were contour maps showing structural complexities of the field. Elk Hills, in the Pliocene beds, is a large anticline with numerous tension faults. It becomes two asymmetric en echelon folds in the upper Miocene formations. The tension faults die out at depth in the lower Pliocene sediments. Several large southwest-dipping thrust faults that die out upwards further complicate the Miocene structure. At the present time an exploratory well is being drilled in Elk Hills to test lower Miocene sands. If the well still is favorably located structurally at the base of the Miocene, it may be carried down to test Eocene sands.

Mr. Wes Porter of Pacific Western Oil Corporation gave a very comprehensive discussion of the areal geology, stratigraphy, structure, and history of development of the Belgian Anticline oil field near McKittrick. Accumulation is found on the gentle southwest flank of an asymmetric anticline. A series of normal and thrust faults transverse to the fold has created separate pools. Furthermore, rapid stratigraphic changes of the Phacoides (Lower Miocene) and Oceanic (Oligocene) sands delimit areas of production thereby making orderly development of the field next to impossible. To date, six sands ranging in age from lower Miocene to Eocene have contributed to the production of the field.

A.I.M.E. QUARTERLY MEETING

The Southern California Section of the A.I.M.E. has announced that its first quarterly meeting will be held at 7:30 p.m., Thursday, March 8, 1951, in Room 145, Hancock Foundation Building, University of Southern California, Los Angeles. The program, of considerable interest at this time to geologists and laymen alike, consists of a panel discussion on the subject, "Water - Southern California's most Important Industrial Mineral - What of the Future?"

An imposing six-man panel of experts has been obtained for the meeting, with Dean Franklin Thomas of Cal-Tech acting as moderator. No prepared speeches are allowed under the rules established for the panel discussion, and no one will be allowed to speak for more than five minutes at one time.

EMERY NEW S.E.P.M. VICE PRESIDENT

The Society of Economic Paleontologists and Mineralogists has announced the results of its recent election of national officers. Thomas H. Philpott, Carter Oil Co., Shreveport, Louisiana, is the newly elected president. Dr. K. O. Emery of U.S.C. was elected vice president, and Dr. Cecil G. Lalicker of the University of Kansas will fill the post of secretary and treasurer.

FIELD AND POOL NAMES

The A.A.P.G., Pacific Section Classification Committee and the Conservation Committee of California Oil Producers have jointly prepared a list of field and pool names for all fields in California, as of January 1, 1951. Copies have been mailed to all members of the Conservation Committee, Field Engineering Committees and to other interested parties. Additional copies may be obtained from A. F. Woodward, Chairman of the Classification Committee, c/o Union Oil Company, 205 East Philadelphia Street, Whittier, California; phone OXford 4-2031.

GEOLOGICAL SOCIETY OF AMERICA

The Cordilleran and Associated Societies of G.S.A. will hold their 47th annual meeting March 23-24, 1951, at the University of Southern California. The general session will be March 23, 9:30-12:00 a.m., and the following papers will be given: B. A. Ogle: The Wildcat Group in the Eel River Area, Humboldt County, California; R. H. Jahns and W. P. Irwin: The Vasquez series in the upper Tick Canyon area, Los Angeles County, California; D. A. McNaughton: The dynamic role of dilatancy in the migration and accumulation of oil in metamorphic rocks: a hypothesis; T. S. Lovering, H. T. Morris, Dean Proctor and John Lemish: Upper Ordovician, Silurian and Devonian stratigraphy in the Tintic Mountains, Utah; W. H. Corey: Southern California coastal paleogeography.

Two sessions, one on Geomorphology and the other on Stratigraphy, will start at 2:00 p.m., March 23. Paleozoic sections in California, Nevada, and Arizona will be discussed during the session on stratigraphy.

Engineering Geology, Structural Geology and Submarine Geology are to be discussed Saturday morning, 9:00 a.m., March 24. Some of the papers to be presented during the Structural Geology sessions are as follows: G. J. Neuerburg: Evidence of a major fault truncating the eastern end of the Santa Monica Mountains, California; G. B. Cakeshott: San Gabriel and related faults in the western San Gabriel Mountains, California; Peter Misch: Large thrusts in the Northern Cascades of Washington; R. L. Threet: Laramide structures in the Parowan Gap area, southwestern Utah, and their relation to the Colorado Plateau - Basin and Range boundary; Richard Merriam: Geology of the Santa Ysabel quadrangle, California.

Saturday afternoon, 2:00 p.m., a Symposium on Reefs will include the following papers: W. Hoylman: Review of geophysical methods of reef discovery; P. E. Cloud: Recent reefs; J. E. Adams: Reef Structures in Texas; H. Lowenstam: Silurian reefs.

It is anticipated that alumni, faculty members, and students of several of the western universities may hold school luncheons on Saturday of the convention. U.C.L.A. alumni have announced plans for a luncheon on Saturday, March 24, 1951, and those interested in attending should contact Dr. John Crowell, Geological Department, U.C.L.A., Los Angeles 24, California, phone BRadshaw 2-6161.

PERSONAL ITEMS

Bill Thomas of Shell recently attended the Monday luncheon of geologists in San Francisco. Bill was so busy introducing Jim Jackson as Shell's new Northern California scout, that everyone else had finished lunch and were ready to leave when Bill was ready to eat. Bill had only a cup of coffee and his lunch money was refunded.

This month the trend is to Altadena, with the Hampton Smiths and Glen Ledinghams each buying palatial manors in the shadow of the majestic San Gabriels.

Frank Minshall of Continental holds the distinction of making the first reservation on the special cars to the A.A.P.G. Convention in St. Louis.

Dr. A. Irving Levorsen, head of the Geology Department at Stanford, has sold his home in Menlo Park and has taken a leave until 1953. Looks as though Lev has departed to Tulsa for keeps. We're all very sorry.

Dr. A. C. Waters, Stanford, is preparing to go on leave to be with the Atomic Energy Commission, U. S. Government, at Denver.

Dr. Charles Parks, Dean of the School of Mineral Sciences at Stanford, is on a tour of Japan for the U. S. Government, inspecting iron mines.

Mr. and Mrs. Robert Ortalda, Standard Oil Company at Ojai, are the proud parents of their first child, Robert Jr., born January 25, 1951, weight 6-1/2 lbs.

K. B. (Pete) Hall reports from the Ojai Ranch the arrival of a fifth son, John Stevens, 6 lbs. 14 oz., born January 27. Bishop Stevens, maternal grandfather of the Hall boys certainly would have approved of their Biblical names: Matthew, Mark, Luke, Peter, and now John. In other terminology, Pete now has a full house or a basketball team, junior league.

There's more to Milt Lewis' operation than we reported last month. He was operated on in the hospital, January 3, 4, and 11, and left there on the 15th. ITEM: He brought home with him a 7-month old daughter! Milt can and will explain this to all interested readers.

Standard Oil Company made some top-bracket organization changes, effective February 1, 1951.

W. P. Winham has been moved to Salt Lake City as Superintendent of Exploration. He was replaced by Ed C. Doell as Superintendent of Exploration at Los Angeles. Doell, formerly in Venezuela, has been at Bakersfield. Evan H. Burtner, formerly resident geologist at Taft, replaces Doell in Bakersfield as Superintendent, Northern District. O. F. Van Beveren, formerly at Bakersfield, became Assistant to Manager of Exploration, George Cunningham, at San Francisco. This position formerly was held by Owen Haines, who was transferred to other duties sometime ago.

Ted Ellsworth, Chief Geophysicist for Richfield Oil Corporation, will assume his new duties as West Coast Division Manager for G.S.I. in Bakersfield on March 1. Bob Dunlap, Vice President of G.S.I., will be transferred to their Dallas headquarters about April 1.

Ray Arnett, Richfield geologist in the Cuyama, reports for active duty with the marines at Quantico on March 7 as a 2nd Lieutenant.

Harold Hoots is a recent addition to the Oakmont Country Club roster and now holds a 1% override in all of Oakmont's sand traps.

The Glen Gariepys are now known as the Veloz and Yolanda of the oil business after their triumph in the Old Fashioned Waltz contest at the last Los Amigos dance in Pasadena.

Cliff Johnson needed all the space in his new Plymouth Suburban to cart home the prizes he and his wife won in the recent Camellia Show at Brookside Park.

Does Bill Merrill have a press agent? Standard featured him in its advertising last year with a picture showing him using a hand lens on some cores. Comes now the Standard Oil Bulletin with an article giving some prominence to our Bill.

Bill Huckaba, a recent graduate of U.S.C. in geology, is now working in Taft for the General Petroleum Corporation.

Klaas van der Weg, senior geophysicist with General Petroleum Corporation in the Rocky Mountains, has been transferred to that company's Los Angeles office.

The battle of the century, a handball match between J. Q. Anderson and Bob Rist at Bakersfield, resulted in victory for J.Q. The exultant victor is now looking for another challenger.

Claude Leach of Tide Water is back from Canada, absorbing a little Southern California sunshine while on vacation.

John C. May, formerly with Tide Water in California and now with the Intex Oil Company, Dallas, Texas, was a recent visitor here.

Willard Classen, our reliable newsgatherer in Northern California, reports a personal diversion last month from covering his territory. His son, who is a senior in geology at Cal, was married on January 28. Russ Morgan (Frank's son) served as best man at the wedding.

Earl H. Bescher, Jr., scout for Humble Oil & Refining Company, has returned from a quick business trip to Houston.

John Reigle, Jr., of Southern California Gas Company, is back from a business trip to Texas, covering the Houston, Austin, and Midland areas. He reports a pleasant visit in Houston with John Domeroq, now an executive with Standard of Texas. He also saw Ralph U. Fitting, who is consulting in Midland.

Emil Huguenin, retired Chief Deputy Supervisor, Division of Oil & Gas, is making an auto trip to the deep South via California and the Pacific Southwest. Emil, acting Mayor of Inverness, California, will top off his trip with a tour of Mexico City and Guatemala.

Ralph Arnold has just returned from a trip to New York, Washington, D. C., and Florida.

Tilden Fryer, University of California geologist who has been working for CCMO at Bakersfield, has been employed by Standard and will be assigned to duty in the Los Angeles area.

John Silcox, recent University of California graduate, has been employed by Standard Oil Company as geologist in the southern district at Los Angeles.

A. J. Macmillan, Jr., has been made district geologist for The Texas Company at Bakersfield, replacing K. F. Krammes who resigned.

Bill Craig has been transferred by Sunray from Texas to be geologist at its Bakersfield office.

Stanley Knouse has been transferred by Tide Water Associated Oil Company from its Rocky Mountain district to the San Francisco office. He is busy looking for a place to live.

John E. Kilkenny, who spent the last 11 years with C.C.M.O., 6 years of which time he was chief geologist, has become affiliated with Union Oil Company as Senior Geologist and Assistant to R. G. Green, Manager of Exploration, Pacific Coast Division.

Dick Puryan is a new geologist for Union Oil Company at Santa Maria. He is an ex-Navy flier and a University of California graduate.

James Howard Casey has been transferred by General Petroleum from Casper, Wyoming, to be geologist at Santa Maria, replacing Ben Lupton, who has been moved to Los Angeles.

John W. Curran of General Petroleum has been assigned full-time scouting duties for the Coastal area.

A strange rockhound recently knocked on the door of Eric Alsford, storekeeper at San Gregorio, and asked for a change of clothes. Seems Roger Dungan of Continental, too eager to reach an outcrop, had fallen into the creek. Tsk, tsk!

Willard Kanagy now is working in Seaboard's Bakersfield office.

CALENDAR

Mar. 5, 1951; Mon. 7:30 p.m., AIME, Metals Branch, Edison Bldg. Auditorium, Los Angeles: Dr. H. P. Neilson, "Transformation in Steel."

AAPG Distinguished Lecturer, W. W. Rubey, USGS, "Development of the Ocean and the Atmosphere," Mar. 6, 7, and 8:

Mar. 6, 1951; Tues. 8:00 p.m., AAPG, Pacific Section, Hancock Auditorium, USC Campus, Los Angeles.

Mar. 7, 1951; Wed. 6:00 p.m., AAPG, Coastal Geological Society, Dinner Meeting, Barbara Hotel, Santa Barbara.

Mar. 8, 1951; Thurs. 7:00 p.m., AAPG, San Joaquin Valley Geological Society, Dinner Meeting, Hotel El Tejon, Bakersfield.

Mar. 8, 1951; Thurs. 7:30 p.m., AIME, So. California Section, Room 145, Hancock Foundation Bldg., USC: "Water - Southern California's Most Important Industrial Mineral - What of the Future?" Panel discussion.

Mar. 9, 1951; Fri. 7:00 p.m., CNGA, Joint Taft, Coastal, and Los Angeles Meeting, American Legion Hall, Newhall: "Gadget Meeting."

Mar. 12, 1951; Mon. 7:00 p.m., API, San Joaquin Valley Chapter, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: R. L. Parsons, "Fluid Mechanics, Part IV."

Mar. 15, 1951; Thurs. 6:30 p.m., SCMA, Dinner Meeting, Rio Hondo Country Club, Downey: J. B. McMahon, Nat'l Pres. ISA, "Process Factors which Affect Automatic Control"(non-mathematical).

Mar. 20, 1951; Tues. 8:00 p.m., API, San Joaquin Valley Chapter, Bakersfield Inn: Speaker to be announced.

Mar. 21, 1951; Wed. 7:00 p.m., API, Coalinga-Kettleman Chapter, Dinner Meeting, Polvadero Country Club: Speaker to be announced.

GSA, Cordilleran Section, 47th Annual Meeting, USC Campus, Mar. 23 and 24, 1951, with pre-session excursions on Mar. 22, 1951; post-session field trip Mar. 25-27, 1951.

Mar. 26, 1951; Mon. 7:00 p.m., API, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: S. T. Yuster, "Secondary Recovery, Part I."

Mar. 28, 1951; Wed. 7:30 p.m., joint SEPM-Cal Tech Geology Club Meeting, 155 Arms Lab., Cal Tech, Pasadena: Dr. Merle C. Isaelsky of Cal Tech, "Oscillation Chart, Facts and Fiction."

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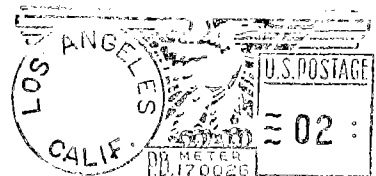
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*Pacific Coast Geology

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

April, 1951

Number 4

ASSOCIATION ACTIVITIES

A.I.M.E. MEETING

DISTINGUISHED LECTURER

Dr. William W. Rubey, A.A.P.G. Distinguished Lecturer, delivered a discussion of "The Development of the Ocean and the Atmosphere" to members and guests of the Pacific Section in the Los Angeles area on Tuesday evening, March 6, 1951, at Hancock Auditorium, University of Southern California. Dr. Rubey presented his paper on succeeding nights in Santa Barbara and Bakersfield to the Coastal and San Joaquin Valley Geological Societies.

In his discussion Dr. Rubey stated that if the history of the oceans and atmosphere were known, and also that of changes in their composition, it would throw light on other problems that confront geologists; but a review of the literature reveals little agreement about this history. It has been suggested that the early seas carried more dissolved iron and magnesium and the later seas more sodium and potassium, that the early atmosphere was rich in carbon dioxide, and that sea-water has become continuously more saline. Yet the mineral and fossil content of sedimentary rocks indicate that the composition of sea-water and atmosphere has varied only slightly since early geologic time. A primary problem is how conditions could have remained so nearly constant for so long.

It is clear, even from inadequate data on the quantities and composition of continental and deep-sea sediments, that the more volatile materials - water, carbon, chlorine, nitrogen, and sulphur - are much too abundant in the atmosphere, hydrosphere, and ancient sediments to be explained like the other materials, as the products of rock weathering. If the earth were once entirely gaseous or molten, these "excess" volatiles probably condensed from a primitive atmosphere; but advancing knowledge in seismology and geochemistry makes it increasingly difficult to retain the concept of an originally molten earth. The relative amounts of these "excess" volatiles correspond fairly well with those in gases from volcanoes and hot springs and in igneous rocks. Conceivably the hydrosphere and atmosphere may have come almost entirely from the earth's interior.

Hot springs are concentrated in areas of relatively young mountains and intrusive rocks; and they may be partly the result of hot gases forced out from crystallizing magmas. If hot springs carry a per cent or so of such juvenile materials, their present rate of flow is sufficient to account for all the hydrosphere and atmosphere.

This would imply that the volume of the ocean has grown with time. On this point, geologic evidence permits differences of interpretation, but the record seems consistent with an increasing contrast between continental masses and oceanic basins and with a progressive sinking of the basins. It is Dr. Rubey's opinion that perhaps something like the following mechanism could account for a continuous escape of volatiles to the earth's surface and a relatively uniform composition of sea-water through much of geologic time:

1. Selective fusion of lower melting fractions from deep-seated, nearly anhydrous rocks beneath the unstable continental margins and geosynclines;
2. Rise of these selected fractions (as granitic and hydrous magmas) and their slow crystallization nearer the surface;
3. Essentially continuous isostatic readjustment between the differentiating continental masses and adjacent ocean basins; and
4. Renewed erosion and sedimentation, with resulting instability of continental margins and mountainous areas and a new round of selective fusion below.

The Southern California Section of the A.I.M.E. presented a program of unusual interest at its first quarterly meeting, held in Hancock Auditorium at the University of Southern California, on March 8. The program, a panel discussion entitled "Water - Southern California's Most Important Industrial Mineral - What of the Future?", brought together on one platform six well-known leaders in the various phases of water supply and demand, with the discussion guided and directed by Dean Franklin Thomas of Cal Tech, the chairman of the Colorado River Water Board of California. Dean Thomas, as moderator, assigned various phases of the discussion to the six-man panel for their initial statements, which were limited to five minutes, and in the second half of the discussion apportioned the questions from the audience to the panel member best qualified to answer.

Dr. John Buwalda, professor of geology at Cal Tech, was the first speaker, and he set the stage for the discussion by describing the geology of the foothill valleys and coastal plain, with emphasis on the origin of the present ground water basins. These basins, having a fixed size, provide ground-water for the Los Angeles area and supply half of its water needs.

The next speaker, Mr. A. K. Showalter, forecaster-in-charge of the U.S. Weather Bureau Forecasting Center at the Los Angeles International Airport, noted the unfavorable location of Los Angeles with regard to topography and the customary storm paths. Long range forecasting was discussed, and Mr. Showalter indicated that little reliance could be placed on forecasts exceeding 48 hours, and consequently did not attempt to predict when the present dry period, now 6-1/2 years in length, might end. He did state that, based on rainfall figures for the past seventy-five years, the probability of 6-1/2 consecutive dry years is 1 in 225.

Harold C. Troxell, hydraulic engineer of U.S. Geological Survey for the Los Angeles District, outlined the hydrologic cycle of the area, and explained that of the 50-inch average annual precipitation in the San Gabriel and San Bernardino Mountains about 1/2 inch per storm is lost by interception and evaporation, about 2-1/2 inches is lost to the ocean by direct runoff and the remainder passes into the highly absorptive debris on the mountains. Approximately 8 inches of rainfall per year is required to fill up soil moisture deficiencies before any recharge of the ground water basins can occur.

The serious problem of salt water encroachment in the South Coastal Basin was described by J. F. Poland, chief of the Water Resources Branch of the U.S. Geological Survey in Sacramento. Salt water encroachment is most serious between Santa Monica and Palos Verdes; in 1948 it extended two miles inland at El Segundo. It is also serious in the Long Beach area and in Orange County where ground water level is now below sea level in more than 155 square miles. However, in part of the coastal area, salt water does not penetrate eastward beyond the Newport-Inglewood fault zone.

Samuel B. Morris, general manager and chief engineer of the Los Angeles Bureau of Water and Power, described the phenomenal growth of the Los Angeles area with its consequent water problem which led to the construction of the Owens River Aqueduct. The Owens River Aqueduct is currently supplying about 323,000 acre-feet of water per year, about one-third of Los Angeles' needs.

C. C. Elder, chief hydrographic engineer for the Metropolitan Water District, discussed the Colorado River Aqueduct and its importance to Southern California. The aqueduct currently moves more than 1,000,000 acre-feet per year from the Colorado River to supply about 99% of Santa Monica's

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Next Deadline April 23, 1951

needs, 4% of Los Angeles' needs in 1950, and about 50% of the needs of more than 30 other cities.

Following these short talks given by members of the panel, Dean Thomas distributed to the speakers written questions from the audience, covering every phase of the water problem.

It is hoped that this same panel may be prevailed upon to present a repeat performance of this very excellent program at an A.A.P.G. Forum, as only a very small group of Pacific Section members were in attendance. The possibility of adopting this type of panel discussion to geological subjects might also be explored by program chairmen for future meetings of the Pacific Section.

IT'S ALMOST TOO LATE

The deadline for photographs to be included in the Pacific Section Photo Directory has been set for April 10th. Arthur Huey reports that already 90% of the Pacific Section members have submitted photographs. The Bakersfield area is showing the highest recovery factor, with only three holdouts reported.

In order to complete the program in the Los Angeles area, the Pacific Section has made arrangements with The Gladser Studios to photograph any members not yet immortalized on silver bromide at absolutely no expense! And in the event that the recalcitrant members are too busy to get to the Gladser Studios at 639 South Spring Street, a sitting can be arranged in your own office, still at no cost. For this executive-type service, dial TRinity 8781.

GIFT TO HUNTINGTON LIBRARY

The Henry E. Huntington Library and Art Gallery, San Marino, states in its 23rd Annual Report, that Ralph Arnold has given to the Library the correspondence and other business and professional records covering his more than 50 years' work in the United States, Canada, Venezuela, Cuba, Trinidad, and Mexico. The gift totals well over 100,000 letters, reports, and other documents, with at least 25,000 photographs. It will be available for public use after about two years, during which time Mr. Arnold will be preparing "A Story of California Oil," and his autobiography, "Pioneering in Petroleum and Politics." The latter volume, besides covering his own very active career, includes the detailed diary of his father, Delos Arnold, reporting his Pasadena years from 1890 to 1906.

IN MEMORIAM
Walter James Crown
(1901-1951)

Walter J. Crown died of a heart attack on March 17, 1951. His sudden and untimely death came as a great shock to his many friends in the petroleum industry.

Born in Oklahoma, November 30, 1901, Walt moved when quite young to Cleveland, Ohio. He attended Ohio State University, graduating in 1923 with a degree in geology. After mining experience in Nevada, he went to work in 1927 for Standard Oil Company of California in the Huntington Beach office. A year later he joined the staff of the State Division of Oil and Gas as a petroleum engineer. During his sixteen years of service with the Division he filled assignments in the Los Angeles, Taft, and Long Beach offices.

In 1944, Walt left the Division to become a petroleum consultant. At the time of his death he was chiefly concerned with the operation of several producing wells in the Long Beach and Wilmington fields.

Surviving Walt are his widow, Berenice, two daughters, Nancy and Joy, and a son, James, all of Los Angeles, and several sisters and brothers of Cleveland, Ohio, where the family is quite prominent in civic affairs.

Those who knew him will miss his cheerful smile, his ready wit, his sincere friendship. The engineering and geologic fraternity has lost a capable brother.

LUNCHEON REMINDER

The next Los Angeles Luncheon Meeting will be at the Hayward Hotel, 6th and Spring Streets, on Thursday, April 5, 1951. Mr. Donald Norris, California Institute of Technology, will discuss "Overthrusting along the Eastern Flank of the Canadian Rockies."

It is felt that the location of the Hayward Hotel will satisfy the numerous requests for a meeting place closer to the downtown area.

S.E.P.M. FIELD TRIP

The annual joint A.A.P.G.-S.E.P.M. field trip is to be held on May 11th and 12th this year, with the Cuyama Valley the locale for the Saturday field trip. Speakers have not yet been announced for the Friday evening dinner session, which is to be held at the El Tejon Hotel in Bakersfield.

GEOLOGY OF CALIFORNIA

The efforts to have the A.A.P.G. reprint "Geology of California," by Ralph Reed, have reached a stalemate. Jack Knight, secretary-treasurer of the Pacific Section, has only received 100 of a required 400 orders for this excellent treatise on California geology. Everyone interested in obtaining a reprint of this book, who has not already done so, is urged to phone or mail his request to Mr. Knight at the British-American Oil Producing Company, 530 West Sixth Street, Los Angeles 14, California, TRinity 1506.

PERSONAL ITEMS

Glen Ledingham has been promoted to manager of exploration at Western Gulf Oil Company. Mel Hill, formerly district geologist, is now chief geologist and will remain in Bakersfield.

John P. Hurndall, formerly manager of exploration for E. W. Pauley, has resigned to enter into partnership with Roe E. Gray. The firm of Hurndall & Gray, 112 South Colorado, Midland, Texas, will conduct general oil exploration and development in the Permian Basin. Gray is also a former resident of Los Angeles and an ex-employee of General Petroleum. Recently he has been adviser for the Venezuelan government.

Lowell Saunders' recent election to the City Council of Bakersfield is gratifying evidence that the public is realizing that geologists are more than oil-finders.

The passenger list for the geologists' special to the National Convention in St. Louis is already assuming sizeable proportions. The roster to date includes President and Mrs. Frank Carter of General Petroleum; F. E. Minshall, Bob Kelley, and J. B. Anderson of Continental; John Loofbourov of Sunray; Mr. and Mrs. Walter English; Karl Arleth and John Ruth of Standard; Louise Starkweather, Marie Clark, Mason Hill, and Bill Mathews of Richfield; Herb Babione, Dick Faggioli, Charles DeLancey, Kenneth Fuller, and Furman Grimm of Humble; Jim Benzley of Amerada; Bill and Fay Kleinpell; Gordon Bell, R. L. Johnston and R. A. Marin of Western Gulf; John Hazzard of Union; H. E. Hopson, J. W. Gilboe, V. W. Finch, and J. L. Cowell of Shell; Mr. and Mrs. Jack Beach of Independent Exploration; Snooky Chambers of Seaboard; Louis Simon and Elmer Baddley of The Texas Company; Curtis Johnson and Rod Colvin of General Petroleum; and Homer Steiny of Tidewater.

The train is due to stagger giddily out of the Union Station in Los Angeles at 1:30 p.m., Friday, April 20th, with the fortunates listed above draped cozily about the club car tables.

K. B. (Pete) Hall raffled off another jug of Harpers for the Coastal Society's benefit at the recent distinguished-lecture meeting. Mrs. W. W. Rubey, charming wife of the speaker, did the honors by drawing the winning number out of a hat. Jim Cowell of Shell was the winner.

R. G. Green and C. F. Manlove of Union Oil Company were seen in the San Mateo County area last week. Scotty's smile brought the first warm days of spring.

Things must be picking up in the Salinas Valley. It's a problem to find Dick Thorup home these days.

Bob Johnston of Western Gulf has proved he has talents other than in geology and baseball by playing the second lead in the Bakersfield Community Theatre production of "You Can't Take It With You."

Harvey Lee of Union Oil Company was seen at a recent Ventura scout meeting -- scouting the scouts?

Chef Bill Thomas, scout for Shell, claims he can cook a better stew than Ross Nichols any time. Ask the boys in the back room of Sam Bell's country store.

Hank Wallron of General Petroleum recently became stranded up Sespe Creek, and had to walk to a deserted CCC camp where he stayed until 4:00 a.m. Half-frozen, he decided to hike out. He managed to get to Wheeler Hot Springs, where he received aid. Who says the younger generation of rock-hounds are sissies?

An unusual "relief" well is being drilled by the Bureau of Reclamation at the North Portal of Tecolote Tunnel. Gas and water pressure have been building up in the tunnel, resulting in an explosion and some flood threats. Harold Polta, project geologist, is now doing some well sitting.

Ed Gribi of General Petroleum became the father of a 7 lb. 2 oz. son, Daniel Manning Gribi, on March 7. Ed, formerly with Sinclair in Ethiopia, and in the Army reserve, will report for active duty on April 10.

Dan Nolan of Continental became the father of a boy, Michael, on February 21.

The foremost topic of the day with Al Dewire of the Conservation Committee is his first grandson, Christopher Allen.

Mr. O. I. Torkelsen has been appointed coordinator of exploration and production of British-American Oil Producing Company, and will make his new headquarters in Toronto, Canada.

Ed Hamner of Humble has gone to Houston for three months to replace Arch Maley, exploration manager, who is taking the Advanced Business Executive Training Course at Harvard University.

W. F. (Bill) Barbat, formerly assistant chief geologist for Standard, has been promoted to chief geologist, succeeding W. S. W. Kew, who will retire in June.

Dave Costello, Tide Water geologist and Air Corps pilot, will report for active duty to Hamilton Field after a two-week vacation.

Dave Day, Tide Water geologist, has felt the hot breath of Uncle Sam down his neck. Final call to active duty has been deferred for thirty days.

Dave Sears of Shell has been given his orders to move to Casper, Wyoming. Does anyone have an extra long pair of longies to lend him? Jack Holzman will carry on for Shell in the Salinas Valley.

John Griffith, scout for Shell at Ventura, will assume his new duties as geologist very soon.

L. A. (Alex) Tarbet has been transferred from the wilds of Salinas to Standard's San Francisco office. Wonder if he had any trouble learning how to tie a cravat?

New headquarters for Standard's Salinas Valley boys is in King City. The fort is being held by C. F. Schiesser and Tom Gross, both recently from the Rockies.

Other recent arrivals out of the Rockies and into the Salinas area are J. M. Saunders and Paige Richardson, two Tide Water Associated transferees.

Bert Dooley, former chief petroleum engineer for Belridge Oil Company at McKittrick, has resigned to become a consultant.

Bill Charles of Pacific Western at Bakersfield has been transferred temporarily to Canada.

Lee Holcomb has resigned from Union Oil Company's staff at Bakersfield to take a position as paleontologist with Stan Beck.

Kenny Evans, vice president in charge of California field operations for Bell Petroleum Company, is moving from Casamalia to offices in the Haberfelde Building, Bakersfield.

John J. O'Keeffe has resigned as superintendent, Northern Division, Kern Oil Company, and is now resident manager for E. W. Pauley in McAllen, Texas.

Barbara Caldwell, formerly in the geological office of C.C.M.O., has been employed by Union Oil Company.

Mr. and Mrs. Harold Polta are proud to announce the arrival of their fourth child, Mary Catherine, weight 5 lbs. 15 oz. Polta is geologist for the Bureau of Reclamation on the Tecolote Tunnel.

Max Steineke, geologist for Arabian American Oil Company of San Francisco, has been designated recipient of the Sidney Powers Memorial Medal of the A.A.P.G. The award will be presented on April 24, at the A.A.P.G. Convention.

Friends of John Curran of General Petroleum wish to extend their sympathy in the loss of his father, who passed away on March 7.

It is reported that the University of California is planning to conduct its summer geology course in the Vacaville area this summer.

Joseph G. Hatheway, this year's publicity chairman for the Pacific Section, has resigned as geologist for Pacific Western to become affiliated with E. W. Pauley as geological engineer.

T. F. (Jerry) Harris, former member of the Pacific Section who was with Standard Oil Company in Arabia, is now with Union Oil Company at its Midland, Texas, office.

CALENDAR

Mar. 26, 1951; Mon. 7:00 p.m., AAPG, San Joaquin Valley Geological Society, Dinner Meeting, Hotel El Tejon: Glenn C. Ferguson, "McDonald Anticline Discovery and Subsequent Development."

Apr. 5, 1951; Thurs. 12:00 noon, AAPG, Luncheon, Hayward Hotel, Los Angeles: Donald Norris, Cal Tech, "Overthrusting Along the Eastern Flank of the Canadian Rockies."

Apr. 5, 1951; Thurs. 6:30 p.m., CNGA Dinner Meeting, Rio Hondo Country Club, Downey: R. M. Dillard, Western Gulf, "Paloma Unit Operations."

Apr. 9, 1951; Mon. 7:00 p.m., API, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: S. T. Yuster, "Secondary Recovery, Part II."

Apr. 9, 1951; Mon. 7:30 p.m., AIME, Metals Branch, General Petroleum Bldg. Auditorium, Los Angeles: E. R. Metz, U.S.C., "Phase Rule and Phase Diagram."

Apr. 10, 1951; Tues. 7:00 p.m., AAPG, San Joaquin Valley Geological Society, Dinner Meeting, Hotel El Tejon: Dr. Hans E. Thalmann, "The Brackish Water Environment and Its Foraminifera."

Apr. 16, 1951; Mon. 7:00 p.m., AAPG, Forum, General Petroleum Bldg. Auditorium, Los Angeles: Robert G. Maynard, Chairman; Speakers to be announced.

Apr. 17, 1951; Tues. 8:00 p.m., API, San Joaquin Valley Chapter, 11-C Camp, Taft: Speaker to be announced.

Apr. 19, 1951; Thurs. 6:30 p.m., SCMA, Dinner Meeting, Rio Hondo Country Club, Downey: J. W. Packham, Bristol Co., "Telemetering, the Equipment, Design, and Installation;" W. H. Masheter, So. Counties Gas, "Practical Adaptation of Telemetering."

Apr. 23, 1951; Mon. 7:00 p.m., API, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: Dean Sheldon, "Valuation, Part I."

Apr. 25, 1951; Wed. 12:00 noon, AIME, Mining Branch, Luncheon Meeting, Board Room, Los Angeles Chamber of Commerce: Roy E. O'Brien, Western Secretary, AIME Mining Branch, "The Butte Story."

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Petroleum Engineer, March, 1951

"Optimum Use of Coring, Electric Logging and Other Testing Methods in Exploratory Wells," by John E. Walstrom. Part 2 of 2 Parts, pp. B-35-48.

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

May, 1951

Number 5

ASSOCIATION ACTIVITIES

SAN JOAQUIN VALLEY GEOLOGICAL SOCIETY

Over 100 members attended the April 12 dinner meeting of the San Joaquin Valley Geological Society at Hotel El Tejon.

Dr. Hans E. Thalmann, consulting paleontologist, presented a general picture of "The Brackish Water Environment, and its Foraminifera," illustrated by lantern slides. After a short review of the research work done on brackish water foraminifera during the last 100 years, the physiographic, biologic, and ecologic characteristics of the brackish water or paralic biotope and the various environmental factors which govern and affect this biotope (especially degree of salinity) were explained. Lowering of the calcium-carbonate content, hand in hand with a decrease in salinity, increased carbon-dioxide and hydrogen-sulphide content in the brackish-water environment, is reflected in the morphology of the small tests of marine foraminifera which invade the paralic biotope, and have to adapt themselves to a new habitat.

Typical examples of recent brackish water habitats throughout the world were demonstrated and the different foraminiferal communities of this habitat enumerated. It was shown that some communities prefer muddy, others sandy bottoms, and that certain species even tolerate waters approaching fresh-water conditions.

Some typical fossil brackish water biotopes of Europe, Asia, and South America were mentioned in order to indicate what can be done with their foraminiferal assemblages for stratigraphic subdivision and synchronization of fossil brackish water deposits. With the help of faunal assemblage lantern slides, it was pointed out how in a paralic necrocoenosis autochthonous and allochthonous elements should be separated, and how approximately the original degree of salinity can be inferred.

Finally, allusion was made to the phylogeny of the foraminifera, the problem of the origin of the brackish water foraminifera, and to the economic importance of brackish water deposits as future original oil mother rocks. The lecturer concluded with a strong appeal for more intensive research work both in the oil industry and at marine biological stations on brackish water foraminifera.

An interesting point brought out in the discussion following the talk is the fact that brackish water foraminifera are found just above most of the important oil producing sands in the San Joaquin Valley.

A.A.P.G. PACIFIC COAST DISTRICT REPRESENTATIVES

The recently concluded balloting for Pacific Coast District Representatives of the A.A.P.G. has resulted in the election of Bill Lewis of General Petroleum, Lowell Redwine of the Honolulu Oil Corporation, Glen Gariepy of the Ohio Oil Company, and John Loofbourof of the Sunray. As District Representatives, these men will serve for a two-year term beginning at the close of the current annual meeting in St. Louis, and ending with the close of the annual meeting of 1953.

The current representatives in the district are Peter Gardett, Manley Natland, Aden Hughes, and R. D. Patterson, whose terms expire with the annual meeting of April, 1951; and Jack Beach, J. E. McMasters, and Frank S. Parker, whose terms continue through the annual meeting of 1952.

The district representatives are automatically members of the Association business committee, representing the members of the A.A.P.G. in this district. Their principal duty other than serving on the business committee is to advise the executive committee of the national Association about the qualifications of the applicants for membership. There are currently seven district representatives from the Pacific Coast district inasmuch as the basis for representation is one representative for every seventy-five full (active) members.

LOS ANGELES LUNCHEON

The April 5th luncheon meeting at the Hayward Hotel featured an excellent discussion by Mr. Donald Norris, graduate student at Cal Tech. Mr. Norris' well-illustrated talk summarized "Overthrusting Along the Eastern Flank of the Canadian Rockies."

The Rocky Mountain System extends from the Endicott Range at the Bering Sea more or less continuously to the Sangre de Cristo Range in New Mexico. The primary interest of the discussion lay in that portion of the System from northern Montana through southern and central Alberta, with which is associated the well known Disturbed Belt. In this region, Laramide thrusting has resulted in a zone of imbricate fault slices which extends up to the base of the mountains. Through differential erosion, the more massive Cretaceous sandstones give rise to a gently undulating foothills topography in contrast to the steep mountain faces of Paleozoic and late pre-Cambrian limestones to the west, and the relatively monotonous plains of Cretaceous and early Tertiary sediments extending eastward across the Alberta Syncline.

The Alberta Syncline lies immediately to the east of the Disturbed Belt and is structurally defined on the one side by the eastern limit of faulting in the Disturbed Belt and on the other by the Canadian Shield. This asymmetrical basin of accumulation of early Tertiary sediments is believed by Link and others to be the last vestige of a migrating geosyncline. With each shift farther east the deepest part was found at a shallower depth, a natural sequel if isostatic compensation alone were active.

From a study of the regional structure it is believed that the structural difference between the foothills of the Disturbed Belt and the mountains is not in type of structure but in magnitude of overthrusting. As a result of such great dislocations as the Heart Mountain, Bannock and Lewis overthrusts, the massive Paleozoic limestones and Beltian meta-sediments have been thrust eastward over the massive but relatively incompetent Cretaceous sandstones and shales. This is in contrast to the large number of thrust faults of small stratigraphic displacement within the Disturbed Belt.

On the basis of structural relations along the front of the range in northern Montana, and in the Flathead Valley, the dating of the thrusting has been pinpointed in this region at least, to latest Paleocene or early Eocene time.

Two contrasting views were presented concerning the mechanism of generation of the imbricate structure of the Disturbed Belt, those of Hake, Addison and Willis on the one hand, and those of Rich and Douglas on the other. From this discussion it was concluded that an intimate knowledge of the actual mechanism must be known before it will be possible to intelligently predict the existence of favorable reservoir structures at depth.

**EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

Frank B. Carter	President
Frank S. Parker	Vice-President
Jack W. Knight	Secretary-Treasurer
J. R. Pemberton	Past-President
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PACIFIC PETROLEUM GEOLOGIST

Published monthly by the Pacific Section, American Association of Petroleum Geologists. Address communications to the: Pacific Petroleum Geologist, Room 430, 555 South Flower Street, Los Angeles 17.

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San Francisco Representative:	Willard Classen
Coast Representative:	Louis Taylor
Salinas Representative:	James O'Flynn

Next Deadline May 21, 1951

A.P.I. SPRING MEETING

The annual Spring Meeting of A.P.I. Pacific Coast District is to be held at the Biltmore Hotel in Los Angeles on May 9 and 10. Paul Andrews, General Chairman of the Spring Meeting, has arranged an excellent program highlighted by two talks of general interest. On Thursday afternoon, Frank A. Morgan, the newly elected president of the A.A.P.G., will speak on "The Effort that Finds Oil," and the Thursday evening banquet in the Biltmore Bowl will feature Henry J. Taylor, noted author and commentator.

GEOLOGIC FORUM

Two interesting papers were presented at the Forum on April 16, in the General Petroleum Building, under the chairmanship of Robert Maynard. The first speaker, Ted Lee, of the Sunray Oil Corporation, discussed "Recent Developments in the Anaheim Area."

The Patrick A. Doheny - Holsinger No. 1 discovery, located one mile south of the town of Anaheim, was completed early in 1951 from sands of Middle Pico age, at a plugged depth of 4,505 feet. The producing zone consists of two sand members, an upper sand stringer of 45 feet and the lower main sand interval of 155 feet. This upper sand was not encountered in the second well in the area, an easterly offset.

The Pliocene sediments of the Anaheim nose rest unconformably on sediments of Topanga age, and the discovery sand is believed to pinch out up-dip to form a stratigraphic trap.

The second speaker, J. Shannon Baker of the Lane-Wells Co., discussed "Radioactivity Logging."

The Radioactivity Logging Service was introduced to the oil industry in 1940, and since that time 30,000 logs have been run in the United States, over 1,200 of which have been in California.

The Radioactivity log is particularly valuable to the engineer and geologist for correlation since it can be run at any time. Many of the older wells, drilled before electric logs, can be surveyed with the Radioactivity log and these correlated with the more recent electric logs. The curves are not detrimentally affected by casing or the type and amount of fluid in the hole.

The Gamma Ray curve is a log of the natural or primary gamma radiations of all lithologic types. Since shales are much more radioactive than sands, the curve denotes lithologic breaks.

The Neutron log is a porosity log and records the secondary gamma rays produced by bombarding the lithologic types with fast neutrons. This curve can be used to locate gas sands and as an indicator of relative amounts of fluid present in the formation.

S.E.P.M.-CAL TECH GEOLOGY CLUB MEETING

Dr. Merle C. Israelsky discussed "Oscillations - Fact or Fancy" at a joint meeting of the S.E.P.M.-Cal Tech Geology Club at Cal Tech on March 28. Early correlations in the Gulf Coast area were made on the "tops" of key index Foraminifera. It was discovered that often these "tops" varied in stratigraphic position. Later floods of certain species were used for correlation. However, in certain areas correlations were still uncertain. Dr. Israelsky contends that even where the forams cannot be carried appreciable distances along a given stratum, correlations, under certain conditions, may be possible. If the forams can be arranged in order of their depositional depth, a time line can be located by connecting points representing, in a series of wells, the position in each well in which the depositional water depth was a maximum, i.e., the point in each well at which the sea changed from transgressive to regressive lies on a single time line. Dr. Israelsky showed a chart from one well in the Lirette field, Louisiana, representing a listing of forams which, by analogy with similar living forams, were divided into five depositional depth groups. In this well he was able to show the point of deepest depositional depth. Work on a series of such wells has not yet been completed.

S.E.P.M. FIELD TRIP

The annual Joint A.A.P.G.-S.E.P.M. Field Trip will be held this year on Friday and Saturday, May 11 and 12.

The program opens with a dinner meeting at 7:30 p.m. on Friday, May 11, at the El Tejon Hotel, Bakersfield. A symposium on the Cuyama Valley is planned for the evening. Ted Bear, consultant, will cover the general geology of the Cuyama Valley in a short paper titled "Generalized Surface Geology of the Cuyama Valley." This will be followed by a review of some of the wells in the Taylor Canyon area by Kenneth F. Krammes, Independent Exploration Company. Aden Hughes, Union Oil Company, will discuss the general stratigraphy under the titled "Stratigraphy of Russell Ranch and South Cuyama Fields."

On Saturday, May 12, those interested are urged to be at the Richfield Oil Corporation Field Office before 9:30 a.m. where extra autos will be parked. A conducted field trip through the Cuyama Valley under the guidance of Richfield Oil Corporation personnel is planned. At the end of the field trip a picnic lunch will be available for those interested.

The committee very strongly urges all who are interested in attending to make reservations both for the Friday evening dinner and the field trip on Saturday. It is imperative that reservations be in by May 4.

BASIN AND RANGE FIELD CONFERENCE

The Intermountain Association of Petroleum Geologists has announced its Second Annual Field Conference to be held in the Canyon, House, and Confusion Range areas, Millard County, Utah, May 23-26, 1951. The conference committee is under the direction of Graham Campbell of the Phillips Petroleum Company, and a guide book is being prepared under the editorship of Dr. Wm. L. Stokes of the University of Utah.

The program will commence at Nephi, Utah, May 23, where registration and final preparations will be made. May 24 the caravan will visit the Canyon Range (Delta) and the House Range area. The stratigraphy of the Confusion Range will be studied on May 25, and the Bishop Springs and Desolation structures will be inspected on May 26.

Because there are so few towns in the region, this will be a camping-out trip. A field kitchen has been contracted to feed the entire group, which has been limited to 150 participants, and those attending must supply their own sleeping equipment and transportation.

The overall fee for the conference will be \$24.00 per person, payable by mail in advance. This fee entitles the participant to register, to obtain a guide book, maps and logs of the trip, and to obtain meals for the time spent in the field. All inquiries should be addressed to: H. V. W. Donohoo, Secretary, I.A.P.G., Geophysics Department, University of Utah, Salt Lake City, Utah.

WYOMING FIELD CONFERENCE

The Wyoming Geological Association has announced plans for its sixth Annual Field Conference, to be held from July 31 to August 3, 1951, inclusive. From the conference headquarters at Sinclair, Wyoming, daily field trips will cover parts of the Hanna and Great Divide Basins, the Rawlins Uplift, Separation Flats, Sweetwater Uplift, Lost Soldier area, Ferris and Seminole Mountains, Hanna Coal fields, etc.

The Guide Book, which is now in preparation under the editorship of W. F. Brinker, Cities Service Oil Company, and D. L. Blackstone, Jr., of the University of Wyoming, will present a comprehensive and up-to-date review of the geology of south central Wyoming. The Guide Book will be available either in the usual ring bound edition for \$6.00 per copy or as a permanently bound edition for \$7.50 per copy. Those interested in obtaining the Guide Book or in attending the Field Conference should contact Tom Bailey, Field Conference Committee, P.O. Box 2249, Casper, Wyoming.

PERSONAL ITEMS

Mr. and Mrs. Ted Bear announced the arrival of their second child, a daughter, Kendel Bear, on March 23.

Harold G. Multer, who recently obtained his M.S. degree from Syracuse University, has been employed by The Texas Company for work in Taft.

Leroy B. Freeman has been transferred by The Texas Company from New Orleans to work at Santa Paula. He holds an M.S. degree from the University of Michigan.

Lou Ella Saul, who has been doing geology graduate work at U.C.L.A., has been employed by The Texas Company in its Paleontological Laboratory.

Jack Elam is a recent visitor in California and is returning shortly to his present home in Midland, Texas.

Ed Gribi, Jr., of General Petroleum, really had a close call from Uncle Sam. After a farewell luncheon given by his fellow employees, he actually was on his way to report for military duty when revision of orders on certain reserve classifications rescinded his call. He now is back on the job.

Bill Thomas appears to have justified his trip from Ventura to bid bon voyage to the gang leaving for St. Louis last week. Seems one of Bill's conferees might not otherwise have been aboard when the train left Los Angeles.

The recent core party at Los Nietos-Alexander #1 well turned out to be another wild goose chase. The cores vanished before the geologists arrived. The boys are saying poor old Tex Leverett will have a tough time living this one down. They say it's three in a row!

Bill Pemberton is in demand as a speaker before the all-female groups. He spoke again on April 10 before the first meeting of the Ventura Chapter of the Desk & Derrick Club. This is the fourth Chapter of this organization whose membership is open to all women in the oil industry. Next meeting will be held on May 8, when Jim Sheller will speak on "Basic Principles of Geology." Ruth Hurst, Schlumberger, is president of the Ventura Chapter. She has announced that meetings will be held on the second Tuesday of each month.

Bill Holman, Standard's genial Chief Paleontologist, is home for a few days recuperating from a recent operation.

Spence Fine of Richfield is having cat trouble. It all started when Mrs. Fine recently acquired two cats. The milk truck accounted for one, and the remaining one broke its leg while leaping for a bird in the tree. No, it's still alive!

Stanley Herold's sister, Miss Ada Herold, who is on a world cruise on the "Stella Polaris," reports that Silas L. Gillan, consultant of Glendale, is in Bandoeng, Java, Indonesia, having had to interrupt his cruise on this ship. Mrs. Gillan unfortunately suffered a stroke while there, and they temporarily are staying at the Savoy-Hamann Hotel there. Si's many friends here doubtless will wish to communicate with him.

Jim O'Flynn, our faithful Salinas Valley correspondent, has just returned from a quick trip to Montana. He has our sympathy in the loss of his father.

W. G. Bruer of Superior Oil has been transferred to Bakersfield from Amarillo, Texas.

Buzz Fauntleroy is the new young single geologist working for William Ross Cabeen and Associates. A true Texan, he wears high-heeled boots to work every day. He is a graduate of the University of Texas, and did some work in Wichita, Kansas, for the J. M. Huber Corporation.

Rex M. Smith has been transferred by Humble from Tallahassee, Florida, to work as production geologist in Los Angeles. He is a graduate of the University of Texas.

Charlie Foss, who has been representing Tide Water in the Proven Field scout meeting at Long Beach, is being transferred to Tide Water's geological office in Ventura, replacing Vernon Rutherford who now is with Union.

Burton Amundson has been employed by Standard to work as geologist in the Bakersfield office. He is a graduate of the University of Wisconsin.

Roger Alexander has been employed by Standard to work as geologist in the Southern District. He holds a Ph.D. from Princeton, and taught geology at Williams College.

Tom Gross of Standard has been transferred from Paso Robles to work in Salt Lake City.

Carlton James Leith, formerly with Union in northern California, is now working for Standard in the Southern District.

Robert B. Scott has been employed by The Texas Company for work in its L.A. Basin district. He holds a B.S. degree from Redlands, and will receive his M.S. degree from the University of Illinois next June.

Vernon Rutherford is the subject of double news this month. He has left Tide Water Associated and is now in the employ of Union Oil at Santa Paula. Also, he and Mrs. Rutherford announced the arrival of Nancy Ellen, born April 16, weight 8 lbs. 14 oz.

Mr. and Mrs. Cutler Webster, Honolulu, are happy to report the arrival of their third son, Terence Anthony, on April 3, weight 7 lbs. 10½ oz.

Bob McConville of Signal Oil & Gas became the father of twins, Mark and Marie, on April 6.

Dan Sullivan of Continental Oil became a father for the second time with the birth of Patrick Daniel on April 3.

Jim O'Neil of Independent Exploration Company reported for active duty with the Marines at Quantico, Virginia, early this month.

Mr. and Mrs. Wayne Loel have just left on the Lurline for a month's stay in Honolulu.

Bay area members will search this column in vain for news of their doings, for our veteran Northern California correspondent has missed another deadline! Willard was reportedly last seen wandering aimlessly down Market Street in the wake of the MacArthur parade, clad in letterman's sweater and rugby shoes, plaintively chanting the Stanford "Fight Song." It is to be hoped that next month we will be able to bring you an eye witness account of events occurring "Behind the Classen Curtain."

CALENDAR

May 1, 1951; Tues. 7:00 p.m., AAPG, Coastal Geological Society, Dinner Meeting, Barbara Hotel, Santa Barbara: "Stratigraphy and Guide Foraminifera of the Santa Maria District," Aden W. Hughes; "San Miguelito Oil Field," Hugh W. McClellan and Richard B. Haines, Continental Oil Company.

May 3, 1951; Thurs. 6:30 p.m., CNGA, Dinner Meeting, Rio Hondo Country Club, Downey: "Background of Safety and Its Application to Natural Gasoline Plants," J. J. Patterson, Assistant Manager, Insurance Department, Richfield Oil Corporation.

May 7, 1951; Mon. 7:00 p.m., API, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: "Valuation, Part II," Dean Sheldon.

May 10-11, 1951; API, Division of Production, Pacific Coast District, Spring Meeting, Biltmore Hotel, Los Angeles.

May 11, 1951; Fri. 7:00 p.m., SEPM, Annual Dinner, Hotel El Tejon: Speakers to be announced.

May 11, 1951; Fri. 7:30 p.m., SEPM-AAPG, Hotel El Tejon, Bakersfield: Symposium of Cuyama Field Trip, Aden W. Hughes, Ted L. Bear, and Kenneth F. Krammes.

May 12, 1951; Sat. 9:30 a.m., SEPM-AAPG, Richfield Oil Corporation Cuyama Field Office: Conducted Field Trip of Cuyama Valley.

May 15, 1951; Tues. 8:00 p.m., API, San Joaquin Valley Chapter, Bakersfield Inn, Bakersfield: Speaker to be announced.

May 21, 1951; Mon. 7:00 p.m., AAPG, Pacific Section Forum, General Petroleum Auditorium, Los Angeles: Panel discussion on the water supply.

May 21, 1951; Mon. 7:00 p.m., API, Petroleum Engineering Seminar, K.C.U.H.S., Bakersfield: "Legal Aspects," Mortimer Kline.

May 29, 1951; Tues. 7:00 p.m., API, LA Basin Chapter, Annual Barbecue, Stearns Park (limited to LA Basin Chapter members).

PACIFIC PETROLEUM GEOLOGIST
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"Global strain accumulation and release as revealed by great earthquakes," by Hugo Benioff. pp. 331-338.

"Mechanical basis for certain familiar geologic structures," by M. King Hubbert. pp. 355-372.

"Stress distributions and faulting," by W. Hafner. pp. 373-398.

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California Division of Mines

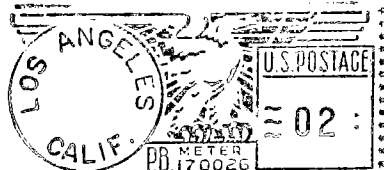
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World Oil, April, 1951

"Excuses to Drill," by Ira W. Gram. pp. 73-75.

*Pacific Coast Geology



Mr. Fred R. Neuman
381 E. 4th St.
Chico
California

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

June, 1951

Number 6

ASSOCIATION ACTIVITIES

LOS ANGELES LUNCHEON

SEPM-AAPG ANNUAL DINNER MEETING AND FIELD TRIP

The annual dinner meeting of the S.E.P.M. was held Friday evening, May 11, in the El Tejon Hotel, Bakersfield. Well over 300 guests were on hand to listen to "A Discussion of Cuyama Valley" with Ken Krammes, Independent Exploration Co., Ted Bear, consulting geologist, and Aden Hughes, Union Oil Co., as principal speakers.

Mr. Hughes opened the meeting by discussing the stratigraphy of South Cuyama field and Russell Ranch area. Stratigraphic columns of each were shown.

Ted Bear discussed the regional geology of Cuyama Valley. Among his many points, Mr. Bear indicated that the Whiterock and Taylor Canyon thrusts are closely related faults that join at depth. Angular unconformities are visible in the field at the base of Morales and the top of Cretaceous. Kodachromes of various geologic structures in the valley were shown.

K. F. Krammes spoke on the geology of the North Cuyama area. He outlined the subsurface structure and stratigraphy of the Taylor Canyon oil field, the Superior pool and Clayton pool of the Morales Canyon oil field. He stressed the fact that in this area Lower Miocene strata of definite Zemorrian stage (equivalent to the Soda Lake shale) are present and that beds underlying this formation are productive.

Some 307 members participated in the field trip Saturday morning and were served a picnic lunch through the courtesy of Standard and Hancock. The caravan started from the Richfield offices in Cuyama Valley and during the day had two principal stops, one at the Whiterock Bluff area and the other at Salisbury Canyon area. Mr. Schwade, Mr. Carlson, and Mr. Dibblee conducted the discussions at these stops.

COAST GEOLOGICAL SOCIETY

The Coast Geological Society met May 1, 1951, at Santa Barbara. Aden Hughes, Union Oil Company, spoke on "The Stratigraphy and Guide Foraminifera of the Santa Maria District." This address was well illustrated with color slides of various outcrops and slides of the important foraminifera. He discussed the various physical characteristics of the fossils and showed how some could be detected in the field with a hand lens. Each guide foram was discussed and placed in its proper stratigraphic position.

Hugh W. McGlellan and Richard B. Haines, both of Conoco, spoke on the "San Miguelito Oil Field." This paper, previously given before the A.A.P.G., has since been revised. The field is a closed anticline, an extension of the Ventura Avenue fold, and is bounded on the north by the south-dipping Padre thrust fault. Minor reverse or thrust-type faulting parallels the axis but has little effect on production. A recent deep test, the Continental - Grubb #301, bottomed in Miocene at 16,727' and explored some 4,300' of Padre fault zone. Accumulation occurs throughout a 2,600-foot series of Pico and Repetto sands. Production is from three zones, 1st Grubb, 2nd Grubb, and the recently discovered 3rd Grubb. Due to rugged topography, many wells are directionally drilled from more accessible surface locations to the desired bottomhole locations. Initial production of field wells averages approximately 1,000 barrels a day of 32 gravity oil, from depths ranging from 6,600 to 9,800 feet. Currently there are 90 producing wells in the field, and the field had produced 21,595,000 barrels of oil as of June 30, 1950.

The regular noon meeting was held May 3, 1951, at Rodger Young Auditorium. All present enjoyed turkey and trimmings as well as a very interesting discussion of "Estuary and Lagoonal Environments," by Mr. R. E. Stevenson, U.S.C. graduate student.

For many years geologists have been describing ancient marine sediments and attempting to evaluate their environment of deposition without first having an adequate knowledge of their modern equivalents. One major purpose in the work of marine geologists is to describe the characteristics of modern marine areas, so that the geologist may properly evaluate his sediments and not perpetuate any misconceptions.

Mr. Stevenson observed that estuaries and lagoons constitute over 60% of the shore zone in the United States at this time. It is likely that ancient shores were occupied by a similar, or greater percentage of this ecologic region. Basic criteria that may be used for environment identification are: fossil fauna, sediments, and structure of the deposits. Of the three, the fossil fauna is the most desirable. However, due to various physical-chemical conditions, it is probable that most ancient deposits are barren or have a poor assemblage.

Most of the organic debris in estuaries and lagoons comes from the plants which populate the environment. Bacterial decomposition of this debris produces high concentrations of hydrogen sulfide and other gases which aid in lowering the pH of the water and sediments. The pH of the water varies also due to the photosynthetic activities of the flora and the existing tides. Over a 24-hour period, the pH rises to a maximum in the late afternoon, begins to decrease at sunset and reaches the minimum just before sunrise. Although the range varies due to the tide cycle and numerous other conditions, readings from 7.2 to 8.6 have been recorded at Newport Bay, California. Similar readings are known from other areas in the United States and Europe. At a pH of 7.8, carbonates begin to dissolve and at 7.5, this action is rather rapid.

The sediments vary in grain size from coarse sand and gravel in the channels, fine sand on the beaches to silt and clay on the marshes. A variation from sandy silt to clay occurs on the marsh flats with an increase of distance from shore. Most marshes are formed on old sand bars and thus there is an increase in grain size and a decrease in sorting coefficient with depth.

Structural features of marsh, channel and bottom deposits vary with the origin of the lagoon or estuary. They are consistent with the mode of origin, however, and a proper evaluation of them can be made by the recognition of these features.

JOHNSON NEW S.E.G. VICE PRESIDENT

The Society of Exploration Geophysicists announced the results of its election of national officers at the recent St. Louis meeting. Dr. Sigmund Hammer, Gulf Research and Development Company, Pittsburgh, is the newly elected president. Curtis Johnson, General Petroleum Corporation, Los Angeles, was elected vice president, and Bob Dunlap of G.S.I., Dallas, was chosen as secretary-treasurer of the society.

PICO CANYON PICNIC

Notices of the Annual Picnic have been sent to all members of the Pacific Section, A.A.P.G. Those who desire to participate in any of the competitive games (cards included), please complete and forward the reservation blanks as soon as possible. Mark Friday, June 8, on your calendar as "Picnic Day."

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Next Deadline June 25, 1951

IN MEMORIAM

**HARRY A. CAMPBELL
(1893 - 1951)**

Last May 11, 1951, the California oil industry lost one of its practical and scientific petroleum geologists and oil field "finders." Harry A. Campbell passed from us.

Harry was born at San Miguel, California, in 1893, where he developed his first love - railroad trains and locomotives. After receiving his degree in economic geology from Stanford University, he made geological surveys in the wild country of Alaska, Canada, and the Rocky Mountains. In the middle twenties Harry was in charge of the core hole exploration program for Cities Service in the central San Joaquin Valley. After weathering the depression Harry was employed by the Jergins Oil Company as its San Joaquin Valley geologist, later becoming chief geologist.

It was with the Jergins Oil Company that Harry Campbell's geological activities bore returns. First came his active exploration and development of the Edison and Mountain View oil fields, together with the tideland exploration in the Huntington Beach field. Later he participated in the exploration of the Rio Vista gas field, and the discovery of the Chaney Ranch oil field. With the schist discovery at Edison, Harry returned to Bakersfield from a period spent in Los Angeles and the Long Beach Harbor areas. Following his work at the Edison oil field, he successfully guided the development in the Mountain View field.

Harry returned to the immediate area of his birthplace and closely directed both the discovery and development of one of the largest subsurface reserves of low gravity oil in North America - the San Ardo oil field.

Truly, Harry Campbell discovered millions of barrels of oil, but he valued most the friends and associations he made in his work. Harry gave not only oil to the industry, but he also gave willingly of himself.

- John D. Hale

NOTE: CONVENTION PROGRAM

All Pacific Section members or persons with ideas or suggestions for papers to be presented at the technical sessions this fall are requested to contact as soon as possible the program chairman, Stanley Wissler, Union Oil Co., 617 West Seventh Street, Los Angeles. Mr. Wissler announces that June 15th is the deadline for submittal of prospective paper titles.

LOS ANGELES FORUM

The Pacific Section A.A.P.G. Forum meeting, held May 21, 1951, presented a "Panel Discussion of the Water Supply Problem in Southern California." This panel meeting was a repeat performance of the highly successful A.I.M.E. quarterly meeting on March 8, which featured the same distinguished panel of speakers. The pattern of the meeting followed closely that of the original meeting, which was summarized in the April issue of the Pacific Petroleum Geologist.

PERSONAL ITEMS

Don Davis, erstwhile editor of this column, has furnished us with double news this month. His third son, Richard Carter, 7 lbs., arrived in Sacramento, on Sunday, May 6. Since each of his sons has arrived in a different city, Don seems to be upholding all the traditions of an oil geologist. Don recently was elected Secretary of the Sacramento Geological Society.

Mr. and Mrs. N. S. Armstrong, of Shell Oil, Ventura, announce the arrival of their fifth child, Roger, born April 25, 1951.

Mr. and Mrs. Robert Blocher, of Shell Oil, Ventura, happily announce the birth of a son, Stephen, 8 lbs. 1 oz., born April 1. (Louis Taylor rejoices that he now has someone to share his birthday. ED.)

Wayne M. "Bud" Smith and "Bob" Quinn of Wilshire Oil Company are in Canada for a six-weeks' sojourn, or until Bob's red-headed son's two o'clock feedings are a thing of the past. John R., the Quinns' first child, was born on April 13th.

R. B. "Bob" Kelly, our faithful San Joaquin representative, formerly district geologist at Bakersfield for Continental Oil, has been transferred to the head office at Los Angeles. His duties as Bakersfield correspondent already have been taken over quite capably by A. T. "Andy" Anderson of Amerada.

Elliott "Bud" Sherman is Continental's new district geologist at Bakersfield. He formerly was in charge of offshore exploration work with headquarters in Los Angeles.

Willard Classen, our long-time correspondent for Northern California, is back on the beam. He attributes last month's lapse to his tough travel assignment in keeping up with Texas Company engineers, making new well locations from Eureka to Carmel.

Ed Gribi of General Petroleum Corporation has been transferred to King City.

Bob Moran, Jr., has formed Moran Instrument Company to manufacture and lease a new electronic surveying instrument he has developed. Using basic radar principles, it measures horizontal distances to an accuracy of 1 in 5,000. The USGS plans to use it this summer for topographic mapping in Kings River National Park. Joshua L. Soske has sold Moran his building in Pasadena for headquarters. Josh remains there with his Geophysical Engineering Corporation.

Tom Baldwin of Jergins drove down to Cuyama and returned to Paso Robles without locking himself out of his new Dodge.

Jim Doty of Shell has just finished a tour of field work in the Salinas Valley and is on his way back to Ventura.

A new arrival in the Salinas Valley is Philip Azarus, University of Kentucky graduate, who recently returned from Saudi-Arabia to accept a position with Jergins at San Ardo.

Dr. Charles Parks, dean of the Stanford School of Mineral Sciences, has returned from a survey of the iron-ore deposits of Japan undertaken for the U. S. Government.

Rumor has it that Floyd Johnson, of Honolulu Oil Corporation, plans to make expenses at Elko, Nevada, by running a game on the side. He offers visiting geologists an extra good percentage, in the ratio of 85% to Johnson, you get the rest.

Barney Barnard, Richfield scout at Bakersfield, has ten (10) Dalmatian puppies looking for suitable foster homes. Traveling and other necessary expenses will be charged.

Ike Holston of Tide Water recently was piloted ably along the San Andreas fault line by Henry H. "Hank" Neel of the same company, in Hank's own plane.

Howard Gonsalves, geologist for Standard at Los Angeles, recently purchased a new Plymouth at Detroit and drove it home via New York.

Executives who have complained of having no advance notice regarding certain scout parties, TAKE NOTE: The San Joaquin Scout Association will hold its annual barbecue Friday afternoon, June 22, at the usual place, across the river from Kern County Park, east of Bakersfield. Non-swimmers, remember the bridge is out across Kern River at the base of China grade. Those planning to attend should so inform their scout representative, promptly.

Speaking of grandfathers, E. C. "Eddie" Edwards recently qualified for the third time in a double event. His son Tommy, who is geologist for Seaboard in Casper, announced the arrival of his second son. Eddie's daughter almost at the same time announced the arrival of a daughter.

John Foreman recently was employed by General Petroleum, and will work in the Ventura Geological Office. He did his Master's work at Pomona College, his thesis being on an area in Nevada.

Nevada provided a "rugged" field trip this week for Jim Anderson of Continental, John Hazzard of Union, and Jack Knight of British-American. The trip was a "camp-out" affair to the Confusion Range, between Utah and Nevada, and said to be an outing that separates the men from the boys.

Hubert Popenoe, of Shell's Geological Office in Ventura, is recovering from an operation in the Good Samaritan Hospital, Los Angeles. His friends will be glad to know he's doing fine.

Ed Wellbaum, UCLA graduate who has been working in North Dakota for U.S.G.S., has been employed by Kern Oil Company, and will work out of Los Angeles.

John Curran of General Petroleum recently was seen rescuing a beautiful young lady from the swimming pool at Paso Robles Inn.

Ed Shuler, formerly with Pacific Western Oil Corporation, now is working for Rothschild Oil Company.

Harold Polta, genial resident engineer for the Bureau of Reclamation at Tecolote Tunnel, is resigning from the Bureau and will return to mining in Minnesota. Best of luck, Harold!

Harry Stuveling, geology graduate of Fresno State College, is a new addition to Shell's Geological Office. After working with McDowd and visiting the various scout meetings, he will provide vacation relief to Bill Thomas and the Bakersfield and Ventura geologists.

Howard J. Speer has been transferred from Casper, Wyoming, to the Tide Water Office in Bakersfield.

Walter Locke, formerly in Shell's geophysical department, is now scouting for Shell at Ventura.

K. B. "Pete" Hall was absent (with tonsillitis) from the May meeting of the Coast Geological Society. Hank Neel, however, officiated at the drawing for the bouquet of Harper's, which was won by Dick Shelton of Ohio. The food was highly complimented, but one chap was impressed with the rareness of the roast beef. He was heard to say, "I've seen steers, hurt worse than this, get up and walk away."

Mia Ramsaur, of Standard's geological staff, has announced plans for a fall wedding to Roger Alexander, Standard's recent Ph.D. addition from Princeton. He now is being transferred to Salt Lake City. Mia is the attractive daughter of Lew Suverkrop, popular Bakersfield geologist.

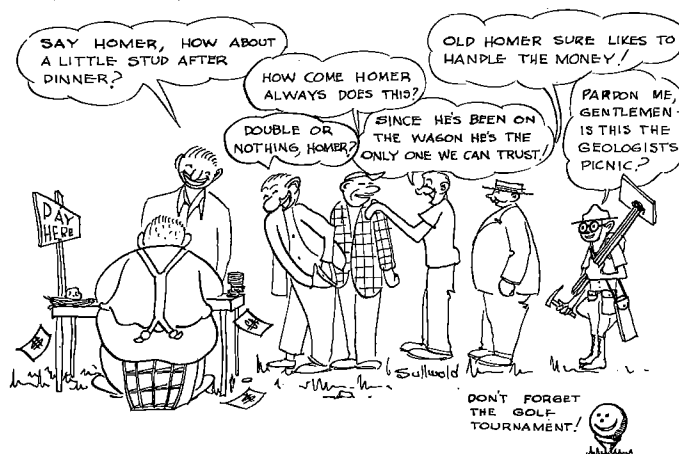
Earl Noble, former AAPG president and now vice president of the National City Bank, New York, surprised the boys by passing out cigars to celebrate the arrival, in April, of his third son, William Bradley.

Jean Hurley, attractive geologist and assistant scout for Richfield in Bakersfield, has announced her engagement to Julien Jensen, who sells insurance for Prudential Life. Ed Lloyd's column in the L.A. Examiner this week spotlighted Jean as a rarity, a girl oil scout. Ed revealed that they plan a late summer wedding.

Stan Beck has finally found time for a vacation in his home State of Washington. His trip will include a reunion with his diaper-school classmates.

Jim Sheller, State Exploration Company, addressed the Ventura Chapter of the Desk & Derrick Club recently on "Basic Principles of Geology."

R. W. "Bob" Anderson has been found! He was rescued from the Santa Barbara-Santa Maria area, and is now in the San Francisco office of Honolulu Oil Corporation.



ANNUAL STAG PICNIC PICO CANYON-JUNE 8

Elizabeth Watson of Union Oil, Whittier, flew to Cuyama for the field trip.

It would appear that Lew Knox and Bob Orwig were seen at lunch on the Cuyama field trip, but were not observed at any of the stops ??

Bob Williams left recently on a trip to Mexico.

William S. "Bill" Eggleston of Union Oil has just returned from an interesting trip to Alaska, during the course of which he visited Naval Petroleum Reserve #4, headquarters at Point Barrow.

Dick Reese, for many years with Standard Oil here and more recently with Arctic Contractors in Alaska, has been employed by the Hudson's Bay Oil & Gas Company, of Canada, and will be associated with Glenn Bowes in Calgary. The Hudson's Bay Company is an affiliate of Continental Oil Company.

James M. Kirby, formerly with the California Company in New Orleans, now is with Standard in its San Francisco office.

Elmo Adams has departed from San Francisco to look over Midland, Texas, for a few months.

Eddie Bartosh has just become a grandfather for the first time, his daughter having presented him with a granddaughter the other day.

Homer Steiny and Louis Simon were the sole Pacific Coast representatives on the field trip to Cape Girardeau, Missouri. Homer's real reason is said to be that the trip coincided with a convention there of the American Association of University Women. He learned two things while there: why women in the Ozarks don't wear shoes and just how large the catfish from the Mississippi River are.

Joe Graham of the Stanford School of Mineral Sciences has been advanced, effective next fall, to Associate Professor. He will work in Washington State this summer, trying to figure out the section for one of the larger Mid-Continent oil companies now busy mapping there.

How many man-hours have been lost trying to balance expense accounts as a result of the St. Louis trip? Incidentally, some of the best statistics emanating from the St. Louis convention relate to the Anheuser-Busch plant.

Paul V. Hodge was recently transferred from Texas to California to take over his new assignment as supervisor in the West Coast Division of G.S.I. Paul is working out of the new Bakersfield office at 1107 Truxtun Avenue.

Mr. and Mrs. Si Gillan are back aboard the S.S. Stella Polaris, after a three-week stay in Java occasioned by Mrs. Gillan's illness. Following her recovery, the Gillans flew to India to continue their world cruise.

The three most distinguished doormen yet seen in Cuyama Valley were Irv Schwade, Stan Carlson, and Tom Dibblee. The trio opened and closed all gates during the recent SEPM field trip.

CALENDAR

June 2, 1951; CNGA, Annual Spring Frolic, Rio Hondo Country Club, Downey.

June 5, 1951; Tues. 7:00 p.m., AAPG, San Joaquin Geological Society, Dinner Meeting, Spanish Ballroom, El Tejon Hotel, Bakersfield: Dr. Duncan A. McNaughton, "Dynamic Role of Dilatancy in the Migration of Oil in Metamorphic Rocks;" Robert Stevenson, "Estuarine Environments."

June 5, 1951; Tues. 7:00 p.m., AAPG, Coastal Geological Society, Dinner Meeting, Barbara Hotel, Santa Barbara: Shannon Baker, "Radioactivity Logging;" Robert Trefzger, "Tecolote Tunnel."

June 8, 1951; Fri. 2:00 p.m., AAPG, Pacific Section, Annual Picnic, Pico Canyon.

June 18, 1951; Mon. 7:00 p.m., AAPG, Pacific Section Forum, General Petroleum Building Auditorium, Los Angeles: Miss Irene Crespín, Canberra, Australia, "Some Features of the Tertiary and Cretaceous Stratigraphy in Northwest Basin, Western Australia," with illustrations.

June 21, 1951; Thurs. 7:00 p.m., joint San Joaquin Valley Geological Society-SEPM Dinner Meeting, Spanish Ballroom, El Tejon Hotel, Bakersfield: Miss Irene Crespín, Canberra, Australia, "Some Features of the Tertiary and Cretaceous Stratigraphy in Northwest Basin, Western Australia," with illustrations.

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BOOKS

"Applied Sedimentation: A Symposium," edited by Parker D. Trask; published by John Wiley & Sons, Inc., New York, 1951.

"Structural Geology of North America," by A. J. Eardley; publisher Harper Bros., New York, 1951.

"Guide to Geologic Literature," by R. M. Pearl; publisher McGraw-Hill Book Co., New York, 1951.

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Bull. A.A.P.G., May, 1951

"Types of Oil and Gas Traps in Rocky Mountain Region," by Alex W. McCoy III, Robert L. Sielaff, George R. Downs, N. Wood Bass, and John H. Maxson. pp. 1000-1037.

Bull. G.S.A., May, 1951

"Sedimentary Basins of Arizona and Adjacent Areas," by Edwin D. McKee. pp. 481-506.

Journal of Paleontology - Vol. 25, No. 2, March, 1951

"A New Method of Sample Preparation," by K. M. Hussey and C. B. Campbell. pp. 224-226.

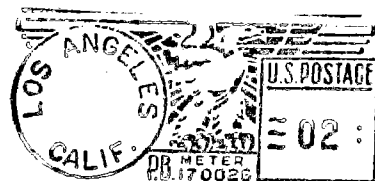
TRADE JOURNALS AND MISCELLANEOUS MAGAZINES

Oil and Gas Journal - May 3, 1951

"Why is Oil Where It Is?" by Philip C. Ingalls. pp. 161.

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

July, 1951

Number 7

ASSOCIATION ACTIVITIES

ANNUAL PICNIC

As usual, the Pico Canyon Annual Spring Picnic, held June 8th, was a colossal success. More than 90 cases of beer and some 514 pounds of barbecued beef were consumed by 354 geologists. Our thanks are extended to Halliburton, M. O. Johnson, Lane Wells and Schlumberger, who furnished the beer. Beef was supplied through the courtesy of Kern County Land. Standard donated the spot and Bob Sitzman, Richfield, master-minded the deal. In the kitchen Capt. Snell and Dick Triplett did a bang-up job, with Harold Rader and Ray Alexander showing great promise as kitchen police. Our thanks are also extended to the many others who contributed efforts to make the affair a success. Incidentally, it was noted with considerable satisfaction that the whole crowd was through the chow line in something less than 20 minutes - undoubtedly a new record of some sort. The only reported casualty was Dan Flynn with a mild case of chilblains, suffered while icing the beer tubs.

COAST GEOLOGICAL SOCIETY

The Coast Geological Society met June 5, 1951, at the Barbara Hotel, Santa Barbara. Frank Carter, Pacific Section president, was among the honored guests. R. E. Trefzger, of the Bureau of Reclamation, gave an interesting talk on the Tecolote Tunnel which is currently being dug from two portals through sediments ranging in age from Middle Miocene to Cretaceous and structurally complicated by the Santa Ynez and related faults. He stated that minor amounts of gas have been encountered in the north portal, necessitating the drilling of a relief well from the surface. About one million gallons of water a day now are entering the tunnel with a resulting slow down of operations. Because no pipe line facilities are yet available, this flow is now going to the ocean. At the last announcement, the north portal has reached a horizontal depth of 9,820 feet, and the south portal 10,521 feet.

J. Shannon Baker of Lane-Wells addressed the group on radioactive logging. It has been proposed that a radioactive log be run in the Tecolote Tunnel and negotiations are now under way for a joint sponsorship of this project by the oil companies. Mr. Baker's talk had been presented before the Los Angeles A.A.P.G. Forum and was summarized in the May issue of Pacific Petroleum Geologist.

SAN JOAQUIN GEOLOGICAL SOCIETY

The San Joaquin Geological Society held a dinner meeting at the El Tejon in Bakersfield, June 5, 1951. Dr. Duncan A. McNaughton, USC, discussed "The Dynamic Role of Dilatancy in the Migration of Oil in Metamorphic Rocks."

Dr. McNaughton stated that the difficulties inherent to the prediction of potential reservoir conditions in basement rocks buried by a concealing mantle of sediments are apparent to all geologists and constitute the main cause for prejudice against basement exploration. The "up slope theory" of oil migration and its limitations was discussed.

An alternative proposition is advanced -- that fracturing of competent basement rocks involves dilatancy which in turn reduces hydrostatic pressures in focal areas of deformation. Pressure

gradients are thereby established between the potential basement reservoir rocks and the overlying source and carrier beds containing oil, gas, and water. Thus a tendency to "suck in" fluids into the basement rocks is established. The hypothesis appears to be compatible with the field evidence in several basement pools in California.

Mr. R. Stevenson, USC graduate student, discussed "Estuarine Environments." A summary of Mr. Stevenson's talk appeared in the June issue of the Pacific Petroleum Geologist.

AAPG-SEPM JOINT MEETING

The Pacific Section of the AAPG and SEPM held a joint meeting June 18, at the Edison Bldg. auditorium. Mr. F. D. Crawford, Union Oil Co., arranged the very interesting program.

Homer Steiny, TWA, related the highlights of the National Convention at St. Louis. Fortunately, Homer learned that the "Cardinals," in this case, were the home team at St. Louis and not the Stanford Indians; so he took the "Cook's tour" of the town and told of the points of historic and geologic interest. One of the most interesting discussions at the business meeting pertained to the growing size of the Association. It was reasoned by some that regional meetings, such as the Pacific Section annual meetings, could replace the national conventions. The speaker's report on the technical sessions was most welcome. For many who have not attended the convention or read the program, this was the first knowledge that the convention was not held at the Anheuser-Busch plant or in East St. Louis.

Boris Laiming, The Texas Co., announced a proposal by Howard Stark, Pomona College, to name the uppermost marine beds in Whittier Hills the "Bartolo formation." This proposal was submitted to the joint AAPG-SEPM group for comments.

Miss Irene Crespín, of the Australia Bureau of Mineral Resources, Canberra, Australia, spoke on "Some Features of the Tertiary and Cretaceous Stratigraphy in the Northwest Basin, Western Australia." The discussion centered on the area around Exmouth Gulf and Northwest Cape. Miss Crespín illustrated her talk with a series of Kodachrome pictures of the outcrop sections and a short color film by Murray Johnstone of the Bureau of Mineral Resources. The film presented a very clear impression of the conditions under which geologic field work must be done in this remote desert corner of Australia.

The geologic sections discussed were those of the Cape Range and the section from Cape Range to the Giralia Range. The Cape Range is a great dome sixty miles long, thirteen miles wide, and has a vertical closure of approximately twelve hundred feet. The Manu of the Lower Miocene is the oldest formation exposed and contains larger foraminifera common to Indonesia. The Manu is overlain by the Tulki formation, a limestone 214 feet in thickness. This in turn is overlain by the upper Middle Miocene Trealla formation.

In the area from Cape Range to Giralia Range a section from Lower Cretaceous through Eocene is exposed. The Cretaceous formations as yet remain unnamed due to the scarcity of established geographic names in the desert of northwestern Australia. The widely exposed Lower Cretaceous formations include a well preserved radiolarite overlain by a gray bentonitic siltstone. Unconformably above this series the Upper Cretaceous is much less widely exposed. The Upper Cretaceous series includes limestones with foram faunas ranging from Taylor equivalent to Midway in the Gulf Coast sequence. Some of these calcareous members weather down leaving a great abundance of megafossils exposed at the surface.

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PACIFIC PETROLEUM GEOLOGIST

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Next Deadline July 23, 1951

**EXECUTIVE COMMITTEE PROTESTS
LEGISLATION AFFECTING GEOLOGISTS**

Frank Carter, acting in his capacity as president of the Pacific Section and with the approval of the Executive Committee, has written to Mr. John Evans, member of the California State Assembly, with carbon copies to various other members of the Assembly concerned, expressing the disapproval of the Pacific Section of Assembly Bills 428, 429, 432, and 433. These bills are identical. They extend to the other branches of engineering the same rigid controls that now exist for civil engineering, that is, they would now prohibit the practice of petroleum engineering to those not registered, whereas the previous law simply prohibited the use of the title "petroleum engineer."

While most of the petroleum geologists did not realize that even in the present law the definition of the "petroleum engineer" included many of the functions of the petroleum geologists. There was no great reason for concern since there was no restriction on the use of the title "petroleum geologist." The present law and the new bill differ little in definition of "petroleum engineer" and "professional engineer" and the outline of the scope of their work. These definitions are somewhat lengthy but the points in which they include the work of the petroleum geologist, and consequently exclude him from practicing such activities, can be seen in the definitions condensed from the present law and the proposed law.

"Professional engineer," within the meaning and intent of this act, refers to a person engaged in professional practice of rendering service or creative work requiring education, training and experience in engineering sciences and the application of special knowledge of the mathematical, physical and engineering sciences in such professional or creative work as consultation, investigation, evaluation, . . ."

"Petroleum engineering" is that branch of professional engineering which embraces studies or activities relating to the exploration, exploitation, location, and recovery of natural fluid hydrocarbons. It is concerned with research, design, production and operation of devices, and the economic aspect of the above."

The new act provides for a fine of not more than \$500 or imprisonment not to exceed three months for violation of the act.

It seems evident from this wording that any person doing exploration, consultation, investigation or evaluation having an economic aspect relating to fluid hydrocarbons would by this proposed law be required to be a registered petroleum engineer. Of course, it is also evident that petroleum engi-

neering is not properly defined even in the present law.

There is some indication that the proposed act will not be reported favorably out of committee, and consequently will not become law at this session of the Assembly. However, this is but a temporary respite, as almost certainly a similar bill will be introduced from time to time until it is enacted into law. There should be great concern upon the part of the petroleum geologists to obtain either an adequate exclusion from the petroleum engineering designation or to follow the course taken by the architects, in which they are licensed and can practice certain phases of civil engineering. While many of the geologists are now registered as professional engineers, and we are fortunate in having a geologist as a member of the Board of Registration for the branch of petroleum engineering, this takes no account of the future, in which the graduate geologist from a letters and sciences college would be unable to pass an examination designed to test engineering fundamentals and petroleum engineering specialties, as required by the law. The membership's thoughts and suggestions on this matter will be welcomed by the Executive Committee.

PERSONAL ITEMS

How did Bill Porter's banjo get smashed? Seems a banjo is no match for a line of geologists' cars wending their way out of Pico Canyon.

Ask Wilbur Rankin how to win hard cash at poker while playing cribbage.

Barney Bernard of Richfield deserves a big hand for making the San Joaquin Scout Association's annual barbecue at Bakersfield, on June 22, such a huge success. Over 300 attended, and it seemed there was a door prize for almost everyone, due to Henry Clark's work as Donation Chairman. The prizes ranged from binoculars, pictures, drafting sets, cigarette lighters, coke refrigerators, through ukeleles, leis, and accordions. Vince Mossbacher of Rapid Blue Print was a masterful M.C., and caused a stampede when he threw open to all comers a stack of staphings. Most popular pastime was the poker game by moonlight, in shirt-sleeves, beside the babbling brook.

Bob Maynard of Sunray is using his vacation to rebuild and modernize the kitchen of his Beverly Hills home. He is installing an electric dishwasher, garbage disposal, and all conveniences. Bob must be a jack-of-all-trades to tackle this job himself.

Vernon Rutherford reports his home in Ventura was burglarized two nights in succession. Vern says the robbers took all his cash but left his wife and kids.

General Petroleum Corporation held its annual picnic for geologists and petroleum engineers recently at Kings River Canyon. Chuck Edwards caught the 13-inch prize.

Bob Atwill, now manager of Union Oil Company's West Texas Division, with headquarters at Midland, Texas, last week made one of his periodic flying trips to Los Angeles to visit with top management. Too bad he missed the Pico Canyon affair.

Ann Garman, Continental's charming geologist, has announced her forthcoming wedding, on July 7, to Edwin Robbins, graduate student at USC, now working for his Master's degree in psychology. Photography is Ed's hobby. Is Ann headed for a modeling career?

Emilia Grace will be back on the job in Union's geological office July 2. "Gracie" has been laid up for a month following a minor operation.

L. S. "Snooky" Chambers' many friends will be glad to know he is doing fine following an operation, and will soon be out of the hospital.

A Salinas Valley rancher recently accused four geologists of taking it too easy and not hiking as the old-timers used to do. The joke is, one of the accused was Thomas W. Dibblee, the "walkingest" man in the business.

On June 16th the Association of Petroleum Wives spread the welcome mat at the Bakersfield Racket Club for their first annual barbecue. Mrs. Burt Ellison, as chairman, was responsible for a grade "A" production. A few of the specialty acts, however, could be foregone in next year's edition. The male guests should be required to do at least one month's hard field work prior to the barbecue or else be forbidden the use of the swimming pool unless completely clothed. Tennant "Barking Seal" Brooks of Standard should be sent to the Pribilof Islands to improve both his aquatic skills and his sound effects.

It is also rumored that the Association's top executives held an extraordinary meeting while the barbecue was in progress to discuss possible ways of filling up Bill Cortright of Tide Water before he comes to next year's barbecue.

Gene Powell, manager of Seaboard-Honolulu-Sunray operations in Canada, was in Bakersfield for several days vacation. His old acquaintances claim that the Frozen North has had no effect on his genial personality.

D. L. "Kirk" Kirkpatrick, formally of C.C.M.O., has entered the consulting business in Bakersfield.

J. G. "Jack" Barr has joined the Standard staff in Bakersfield. He is a graduate of Cal. Tech. with a masters from Indiana.

Murray Nadler and Harry Nagel of Standard were transferred from Taft to Bakersfield.

Who was the Bakersfield Scout caught scouting his own well?

H. H. Sullwold, our faithful cartoonist who always hits the nail on the head with his pictures of geological activities, made a "hole in one" at the Golf Tournament, by hitting Everett Pease in the head with a golf ball. No serious injury. Sully is the subject of double news this month: he has a personal core hole project, drilling 54 core holes in preparing the site for his new home at Studio City, Laurel Canyon. He hit basement at 21 feet.

Louis Chappuis has gone to Mexico City on a geological assignment for Edwin W. Pauley.

Dr. M. N. Bramlette, UCLA, is moving to La Jolla, California, to conduct, as an A.P.I. Fundamental Research Project, a study of sediments from the Gulf of Mexico, using facilities of the Scripps Institution of Oceanography. The UCLA Geological Society held a farewell party for "Bram" at Pico Canyon and presented him with a pipe and lighter.

H. H. "Hank" Neel of Tide Water seems to be the center of this month's news. (1) As pilot of the "Ham Lift" he flew his plane to Long Beach to pick up the hams for the Pico brawl. (2) He doffed his pilot's cap and donned the attire of a chef to serve as cook for the same affair. (3) He is specializing in conducted tours of the Ventura Avenue field, having had in tow 5 (five) charming young ladies at once, following the Desk & Derrick Club's field trip to San Miguelito. (4) All this he does in addition to (a) ranching and (b) geology.

Jack Beach is accused of trying to "knock off" his co-chairman with a 300-yard drive on the 9th hole at the Golf Tournament. Stan Siegfus didn't object to the attempt on his life, but dislikes being the incentive for the long drive. Jack is also double news this month: he has resigned as vice president and geologist for Independent Exploration Company, where he has been for the last 8 years, to become manager of exploration for the Oceanic Oil Company. Jack is leaving for Texas to set up a Division Office for Oceanic.

Mr. and Mrs. James Saunders, of Tide Water Associated at Paso Robles, announce the arrival of their first child, Gregg, born May 19.

Peter H. Gardett, formerly Assistant Supervisor of Exploration, California Division, for General Petroleum, has resigned to enter business for himself. Pete's office is in his San Marino home, 836 Winthrop Road, and he may be reached on the phone at PYramid 1-2322.

Jim Jackson of Shell Oil Company is being transferred from the Ventura Office to Salinas.

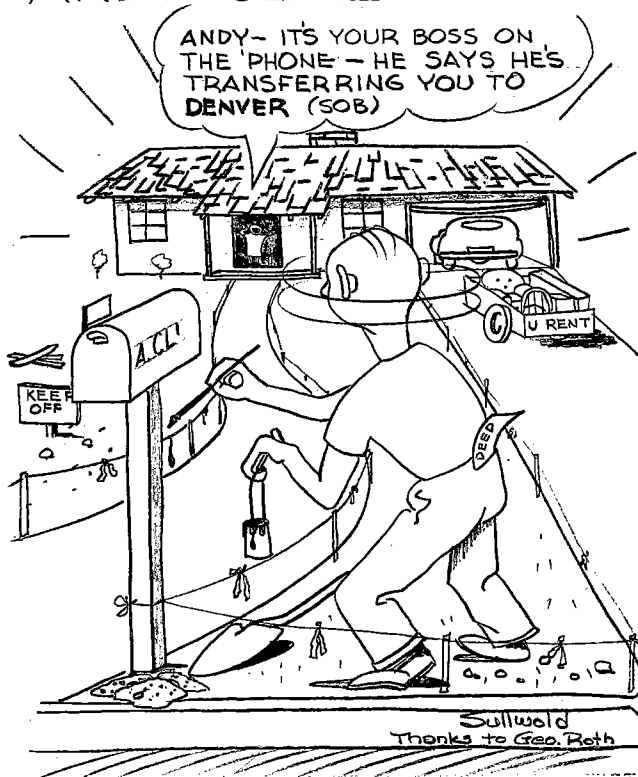
Ed Hall of Union Oil must be living right! He won the I. W. Harper prize at the Coastal meeting in Santa Barbara, and now is credited with a new field discovery - Union's Rancho Ex-Mission Fee Core Hole No. 2.

TENNIS TOURNAMENT

Both singles and doubles round robin was played at North Hollywood Park. Louis Bond won the trophy for first prize singles breezing. Lowell Redwine placed second and Al Woodward third.

In the doubles the Tony Morris - Louis Bond team took the first prize of tennis balls. The Lowell Redwine - Bob Maynard team placed second, and Al Woodward and Mason Hill took third prize. A good time was had by all and the six-hour tennis workout contributed considerably to the 6-can per man average beer consumption at the picnic.

ANDY CLINE



SO I TOOK MY 7 IRON . . .

The Third Annual Spring Golf Tournament was held in conjunction with the Pico Canyon Picnic on June 8th at the San Fernando Country Club. Stan Siegfus, Pacific Western, and Jack Beach, then with Independent Exploration, were co-chairmen for the tournament. Jack provided strong incentive for the 52 par-punishers by putting \$75.00 worth of prizes on the line.

Sam Watson stroked his way into first place for both low gross and low net with a sizzling 72, one over par, and a net 63 with his nine handicap. Harry Godde, the 1949 champion, finished fast to post a net 65 for second.

The tournament has shown an amazing growth in its first three years. In 1949 only 23 golfers gathered on the starting tee at the San Fernando Country Club; the number had grown to 33 by last year; and this year the would-be Sneads and Hogans totalled 52. Some of this amazing growth is due to the presence of the seven-man entry of the Humble Golf and Refining Company, which displayed alarming strength-in-depth with their 90.1 stroke average per man for the tortuous 18-hole course. It is anticipated that legislation may have to be introduced that will eliminate the platoon system if this old Scottish game is to long survive.

The scores turned in are reproduced here without further comment:

	Gross	Handicap	Net
1. Sam Watson	72	9	63
2. Harry Godde	78	13	65
3. Bill Greenwalt, Jr.	81	15	66
4. James Kimble	84	17	67
5. John Bell	86	18	68
6. M. T. Higgs	94	25	69
7. Bert Thach	75	5	70
8. Harold Sullwold	96	25	71
9. O. W. Fauntleroy, Jr.	96	25	71
10. R. V. Hughes	97	25	72
11. J. W. Ray	93	20	73
12. George Roth	93	20	73
13. Stan Siegfus	91	18	73
14. Wangsness	93	20	73
15. K. E. Myron	93	20	73
16. R. S. Green	86	12	74
17. Glen Ferguson	83	9	74
18. Joe Maxwell	86	12	74
19. Furman Grimm	88	13	75
20. Bill Whitely	95	20	75
21. O. K. Fuller, Jr.	90	15	75
22. H. Yarborough, Jr.	85	10	75
23. Stan Carlson	94	19	75
24. Jack Knight	87	12	75
25. Roy Mead	84	8	76
26. Dana Dietrick	98	22	76
27. Jack Jackson	89	13	76
28. George Wheatley	91	15	76
29. Deming	94	18	76
30. Ed Shemph	96	20	76
31. Bill Comstock	91	14	77
32. A. M. Gardiner	92	15	77
33. Bob Wells	88	11	77
34. Jack Parle	93	16	77
35. Art Graser	102	25+	77
36. John Ruth	102	25	77
37. Jack Beach	87	9	78
38. Ed Hammer	93	15	78
39. Joe Hudson	100	22	78
40. Harold Hoots	103	25	78
41. E. L. McDowd	99	20	79
42. Ted Bear	106	25	81
43. C. E. Kirschner	108	25	83
44. John Kilkenney	109	25+	
45. Bill Graig	109	25+	
46. W. M. Quakenbush	110	25+	
47. John Loofbourow	112	25+	
48. C. H. Feister	114	25+	
49. R. E. Brodek	114	25+	
50. M. C. Barnard, Jr.	119	25+	
51. Lavery	119	25+	
52. Everett Pease	120	25+	

CALENDAR

Due to the fact that geologists are being granted vacations this year, no technical meetings are scheduled for July.

PACIFIC PETROLEUM GEOLOGIST
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Vol. 5, No. 7

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- * Bulletin 148 - Geology of the Blue Lake Quadrangle, California, by George A. Manning and Burdette A. Ogle, 1950.
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- * Bulletin 157 - Geology of the San Jose-Mount Hamilton area, California, by Max B. Crittenden, Jr.

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- * San Fernando Foothills Oil Search Begins, by Howard Kegley, pp. 5.
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* Pacific Coast Geology



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California

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

August, 1951

Number 8

ASSOCIATION ACTIVITIES

A.A.P.G.-FALL CONVENTION PROGRAM

The AAPG Pacific Section fall meeting will be held at the Ambassador Hotel, November 1 and 2. The general chairman is Joe Hudson, Humble Oil and Refining Co. Arrangements will be handled by Wally Matjasic, Honolulu Oil Co., and Jack West, Seaboard Oil Co. Ted Bear, consultant, will get the program in shape for the printers.

The Program Chairman, Stan Wissler, reports that the program is shaping up. The Pacific Section will be honored by the presence of Wallace E. Pratt as guest speaker. Mr. Pratt will present A Philosophy of Oil Finding. We plan to have Graham Moody discuss Present Discoveries and Reserves. It is hoped W. S. W. Kew will be available to give the Historical Background of the Geology of the Castaic-Newhall Basin. Other papers on the Castaic-Newhall area will include A Discussion of the "Modelo" Sandstone Unit of the Northern Slope of the Santa Susana Mountains by Edward L. Winterer, of the U.S.G.S.; The Geology of the San Fernando-Lopez Canyon-Kagel Canyon-Tujunga Canyon Area, by Gordon B. Oakeshott, of the California Division of Mines; A Detailed Cross Section Showing Producing Fields of the Newhall-Castaic Basin by the Subcommittee on the Cenozoic of the Geologic Names and Correlations Committee of the A.A.P.G. by J. W. Sheller with comments by other members of the committee; the Castaic Junction Field by Hunter Yarborough, Jr.; and The Geology of the Honor Rancho Field by F. D. Bode and A. J. Macmillan. R. W. White's Subcommittee on the Cenozoic of the Geologic Names and Correlations Committee of the A.A.P.G. will present cross sections on the Los Angeles Basin, Sacramento Valley, Cuyama Valley and Southern San Joaquin Valley.

Friday afternoon, November 2, there will be a joint session with the S.E.G. at which time case discovery histories of a number of fields will be presented.

Other papers on the program include: Elk Hills Field by John Wells, Belgian Anticline by C. W. "Wes" Porter, Geology of the Tecolote Tunnel by Robert Trefzger of the U. S. Department of Reclamation, Santa Cruz-Halfmoon Bay Area by Tom Baldwin, Huasna Basin by Gordon Bell and Structure of the Northern Santa Ana Mountains by J. E. Schoellhamer and D. M. Kinney of the U.S.G.S.

A.I.M.E. - PACIFIC PETROLEUM CHAPTER

Curtis H. Johnson, General Petroleum Corp., presented a very interesting talk to the AIME group Monday, July 23, 1951, on the subject "Offshore Seismic Exploration."

The speaker stated that, according to figures issued by the API, there has been a decline in the oil reserves of the State of California for many years. This condition exists in spite of increased exploration effort and improvements in exploration techniques.

Those on the firing line in exploration for oil know that the best hope for a reversal of the reserves decline curve lies in the opening of new provinces to exploration. With this thought in mind, many oil companies in California have turned their attention to the vast unexplored oil province under the ocean.

During 1948 and 1949 joint seismic operations were conducted offshore by a group averaging 14 oil companies employing two crews for a total of 13 crew months. This joint effort was required by the California Division of Fish and Game to minimize damage to fish.

Problems peculiar to marine work are: secondary energy bursts, circumvented by either firing charges shallow or jettling them into the bottom; multiple reflections from the ocean floor, which result in apparent reflections below basement for shallow water, unusable records in water around 500 feet deep, and complete repetitions of section for very deep water; occurrence of high angle "erratics," interpreted in terms of faulting, buried stream channels, and bottom irregularities; constant velocity in deep water, handled by projecting shots and detectors to the ocean floor; surveying over vast expanses of water, accomplished by the use of shoran; and timing the programming of specific lines to best overcome bad weather, ocean traffic hazards, and damage to fish.

Tactics designed to facilitate geological interpretation involve density of lines and shot points along lines and the use of L-spreads to obtain strike and dip. Factors in the interpretation of seismic results are diagnostic unconformities known in adjacent areas, submarine coring, regional submarine topography, and data from supplementary geophysical methods.

The Union Oil Company and the United Geophysical Company have recently completed a series of experiments indicating that the substitution of black powder for dynamite will reduce the fish kill to practically zero. As a result, a permit has just been granted to conduct further exploration offshore between Pt. Dume and Dana Point.

Mr. Johnson's talk was well illustrated with both colored slides and black and whites of actual operations and problems encountered.

MORGAN MAKES MAXIMUM MILEAGE

Frank A. Morgan, A.A.P.G. President, is closely following Association affairs this summer. In the early part of June, Frank visited Tulsa headquarters, accompanied by Mrs. Morgan. After leaving Tulsa their travels included Dallas, San Antonio, Houston, and New Orleans where conferences were held with Association leaders in the affiliated societies of the several areas. A return trip to Tulsa was occasioned by a meeting of the executive committee late in June, and following the meeting Mr. Morgan spoke at luncheon meetings of the Kansas Geological Society at Wichita and of the Wyoming Geological Association at Casper.

Currently the Association president is attending the Wyoming Geological Association field trip in the vicinity of Rawlins.

L. A. FORUM

On Monday, August 13, 1951, at 7:00 p.m., in the General Petroleum Auditorium, Professor V. L. Vander Hoof, of Stanford University, will discuss "Early Geologic Mapping in California, History of Geologic Research in the San Francisco Bay Region, and the Birth and Growth of the Geologic Departments at Palo Alto and Berkeley." The talk will be illustrated with slides of early geologists, old geologic maps, and points of historic interest.

G.S.A. MEETING

The Annual Meeting of the Geological Society of America is to be held at the new Los Angeles Statler Hotel in the fall of 1954. The Interim Committee appointed for the convention consists of Doctors W. C. Putnam, University of California at Los Angeles, Ian Campbell, California Institute of Technology, Thomas Clements, University of Southern California, and E. F. "Fritz" Davis, consultant. This will be the first Geological Society of America annual meeting to be held in Los Angeles.

**EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

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San Francisco Representative: Willard Classen
Coast Representative: Louis Taylor
Salinas Representative: James O'Flynn

Next Deadline August 20, 1951

**IN MEMORIAM
JOSEPH JEFFERSON BRYAN
(1905-1951)**



Joe Bryan, past president of the San Joaquin Valley Geological Society, passed away July 3, 1951. His long, difficult illness and untimely death were most grievous to his many friends in the profession.

Born in Chillicothe, Missouri, August 15, 1905, Joe attended local schools and was graduated from the University of Missouri in 1929. Pursuing his geological studies, he received his Master's Degree there in 1931. After National Parks

service in Grand Canyon, he accepted a position with Tide Water Associated in the San Joaquin Valley in 1934.

After ten years experience in California and Alaska, Joe joined the Union Oil Company in Bakersfield as division geologist, where he served with outstanding success for seven years. He was responsible for the discovery or extension of Cymric, Salt Creek, Helm, West Edison, and Gosford oil fields. Joe's deep attachment to his friends in Bakersfield as well as his failing health caused him to decline many opportunities to progress even higher in the industry.

Surviving Joe are his widow, Marjorie, a married daughter, Diane, and relatives in Missouri.

Joe Bryan was truly modest. He was unostentatious not only in marked professional skill but also in his great capacity for friendship, his courage, generosity, dignity, and a moral strength that is all too scarce in our troubled world today.

Jack Harding

PACIFIC SECTION DIRECTORY

Art Huey, Roster Chairman, reports that the photo directory of the Pacific Section is now in press and proof sheets are being checked. Those who have seen the lay out of the book are quite enthusiastic about its appearance. The cover is to be of a leatherette material imprinted with gold letters. The book will include the pictures and pertinent data on more than 600 active members of the Pacific Section with space provided for the addition of new members and will be a bound edition rather than in loose leaf form as originally planned. The publication of the book is supported by

a number of companies which will be listed in a compact advertising section. As a result of this support, the cost of the book to the individual member is going to be nominal. The date and manner of distribution will be announced later.

In this roster project Art Huey would like to acknowledge the assistance of Bob Maynard, Everett Pease, Dan Klemme, Jack Harding, and Milt Lewis.

PERSONAL ITEMS

R. G. "Scotty" Greene has been made manager of exploration, Western area, for Union Oil Company. He will be in charge of exploration in the Pacific Coast, Rocky Mountain, and Canadian Divisions.

John R. Sloat, formerly chief geophysicist for Union Oil on the Pacific Coast, has been made manager of exploration, Pacific Coast, for Union.

Mike de Laveaga is now division geologist for San Joaquin Valley Division, Union Oil Company, with headquarters at Bakersfield.

Aden W. Hughes, who for many years has been district paleontologist for Union at Santa Maria, has resigned, effective September 1st, to enter business for himself in partnership with Dr. Paul P. Goudkoff, consultant. Aden will be succeeded at Santa Maria by Doug Crawford.

Bob Keyes' many friends here, who have followed his rapid rise since moving from California to New Orleans, will be glad to know he recently was made assistant manager of the producing department for The Texas Co., with the entire United States as his territory. Bob was with the California Division of Oil & Gas before going to The Texas Company.

Bob Rist, who has been with Standard Oil for 13 years at Taft, Coalinga, and Bakersfield, as geologist and San Joaquin Valley scout, has resigned. He is now district geologist for the Jergins Oil Co. in the San Joaquin Valley, succeeding the late Harry A. Campbell.

Tom Newbill, Jr., of Standard, is now resident geologist in Santa Maria. He had been working for Standard in the Newhall-Castaic area, and previously was with Richmond Petroleum Company in Venezuela and Columbia.

Bob Brace, handsome young Standard geologist, has completed a hitch as geologist in the Utah-Nevada area and now is working as geophysicist out of Bakersfield.

John Szatai, who holds a Master's degree from Stanford, has been employed by Standard as geologist in the Los Angeles area.

Tom Bibb has resigned from The Texas Company at Santa Paula and is now working for British-American in Los Angeles.

John Fackler, formerly with C.C.M.O. in the Salinas Valley and on the Coast, now is employed by Jergins Oil Company.

Bob Johnston has assumed the reins of district geologist for Western Gulf at Bakersfield.

Iliff Anderson, formerly with C.C.M.O., is now resident geologist at Santa Maria for The Texas Co.

Bob Dyk of General Petroleum has taken a job with G.S.I. in Denver effective August 1st.

Hubert L. Popenoe, Jr., Shell geologist at Ventura, fully recovered from his recent serious illness, will soon sail with his family for The Hague, where they expect to remain for 6 months.

Pacific Section members were saddened by the news of the recent passing of Ted Easton's father.

Bill Wrath is back from a short assignment in Cisco, Texas, looking after Bolsa Chica's exploration there.

Kees Bouman, on a short leave from his work in Sumatra for Standard, flew in and out of Los Angeles recently, the trip having been occasioned by his wife's illness.

Lloyd Lewis, Shell geologist, will return shortly from The Hague, where he has been for the past 6 months.

Joe Parmenter has taken a job as geologist with D. D. Feldman in the Valley.

Bob Nesbit has gone to work for The Texas Company as geologist at Santa Paula. Bob graduated from Stanford in '46, taking his M.S. degree at Oregon State in '51, and worked in South America with Superior Oil Company for 2 years.

Bill King has been employed by The Texas Company as geologist in the Santa Paula area. He is from Colorado School of Mines, '48, has done one year's graduate work, and worked one year for Phillips Petroleum Company.

Don Six has been employed by The Texas Company as geologist at Taft. He graduated from Cal Tech in '49, and took his M.S. degree at Indiana University in '51.

Bill White has been employed by The Texas Company as paleontologist. He graduated from USC in '50, and has completed requirements for his M.S. degree there.

Ray Alexander has replaced Yale Langworthy as Texas Company Scout in the San Joaquin Valley.

Ray Hancock of Lane-Wells has been transferred to Oklahoma City effective August 1st.

Roger Revelle is now Director of the Scripps Institution of Oceanography at La Jolla.

David T. "Toby" Hoenshell, former KNDA geologist who has been in Casper with General Petroleum for 8 years, was a recent visitor in Los Angeles.

F. W. Hertel, Tide Water's genial superintendent at Ventura, addressed the Desk & Derrick's Ventura Chapter on July 10, on "History of the Ventura Avenue Oil Field." Their next meeting will be August 14, when a Shell film, "The Birth of an Oil Field," will be shown.

What's this story about Lois Martin of Shell going to sit on the Kirby Hills well with trailer, etc.?

Members of the San Joaquin Valley Scout Meeting reportedly are already trying to arrange core parties in Northern California to coincide with dates of the major football games.

Bob White's many friends will be glad to know he is recovering nicely from an emergency operation performed a week ago. He expects to be home again about the time this reaches print.

Eric Jacobson of Standard proudly passed the cigars to celebrate the arrival of his first child, Fritz Robert, on July 18. Eric says he has his soft slippers already broken in.

The many friends of Zilda Cross, former secretary of the S.E.P.M., Pacific Section, will regret to learn of her recent passing. She had worked for Continental Oil Company, and more recently for Wilbur Rankin, consulting paleontologist.

Leslie M. Clark, formerly chief geologist in Canada for Seaboard Oil Co., has resigned to join Pacific Petroleum, Ltd., as vice president in charge of exploration, with offices in Calgary.

The Pacific Section wishes to extend its sincere sympathy to Tom Rothwell of Richfield, whose mother recently passed away.

Dick Ballantyne and three of his friends recently made life miserable for their neighbors by returning from the 14-mile Banks with 25 albacore. Chicken-of-the-Sea, anyone?

Ohio Oil Company recently sponsored a deep sea fishing trip out of Hueneme. Much to their surprise everyone caught fish, with Gladys (Mrs. Russ) Simonson taking the lead among the ladies. Glen Gariepy's son Byron caught the largest and smallest fish - both on the same line at the same time!

The Coastal Scouts Annual Barbecue held Friday, July 20, at the Shell Recreation Lodge, Ventura, was thoroughly enjoyed by the 50 in attendance. Hank Neel did his usual excellent job as chef, and the steaks were cut to order and of a variety believed no longer obtainable. Declan Ford of Continental is said to have gathered a record by returning 9 times to the trough. Mr. & Mrs. Homer Steiny held open house, preceding the dinner, at the City Center Motel, Ventura, for their many Los Angeles and Ventura friends who attended.

Ralph Brodek of Western Gulf is said to have spent his 2-week vacation on the rail at Hollywood Park helping to pay for Citation's feed bill.

Rod Geddes of Southern California Gas Company had the unique experience of having a seal for a close swimming partner while in the surf at Seal Beach. Rod made a beeline for shore and surprised himself by swimming faster than the seal.

Gerry Ganopole of Seaboard is limping around on a damaged foot, the result of a slight error in his mountaineering technique. Ev Burtner of Standard is trying to keep Gerry out of sight while he obtains unwary recruits for the recently formed Bakersfield Branch of the Sierra Club.

United Geophysical Company acted as host to about 50 employees of General Petroleum, Humble, and Standard, on a deep-sea fishing trip on a large offshore seismograph boat. Miss Adelaide "Ted" Grant of GP's geological office caught the largest fish, a 15-lb. halibut.



U.S.C. NEWS

Twenty-nine students from USC are mapping in the Ely, Nevada, area where a complete Paleozoic section is exposed as well as some "unusual" structural problems. Their camp is based at Kimberly, White Pine County. The field party is under the able guidance of Dr. Duncan McNaughton and Mr. Bob Weidman.

Dr. K. O. Emery is on sabbatical leave. When yard work at his new home in Rolling Hills is not occupying his time, he will be working on the manuscript for a new book on some phases of oceanography.

Drs. Clements and Merriam are conducting desert research for the Army Quartermaster Corps in the Yuma-Death Valley region this summer.

CAL TECH NEWS

The California Institute of Technology Summer Field Camp is again operating in the Sacramento Mountains of New Mexico. This year the camp is under the direction of Lloyd Pray. Dick Jahns is the associate staff member. Dr. Ian Campbell reports the current status of the CIT geological department as "quo."

BERKELEY NEWS

Summer Camp: Professor N. L. "Tucky" Taliaferro is conducting his 26th Summer Camp, assisted by Instructor Garniss Curtis and teaching assistants Tom O'Neill, Marshall Maddock, and Hank Herlyn. A class of 64 students is doing detailed mapping in the Mt. Vaca and Capay Quadrangle areas. Their camp is in the shade of a large fig orchard in Pleasant Valley, south of Putah Creek. It is reported to be a good year for Cretaceous and Eocene fossils, rattlesnakes, poison oak, figs, and beer. Residents of Vacaville and Winters are well aware of their proximity. Camp break-up will be about August 10th.

Professor Perry Byerly, Chairman, will go to Europe in August to attend a meeting of the International Union of Geodesy and Geophysics in Brussels.

Professor F. J. Turner left in June, as a Guggenheim Fellow on semi-sabbatical, with Mrs. Turner and daughter, for research in Europe and New Zealand.

Professor Adolf Pabst is in Stockholm attending a meeting of the International Union of Crystallographers.

Assistant Professor W. H. Mathews has returned to Canada to teach at the University of British Columbia in Vancouver.

Assistant Professor Charles Higgings has arrived from the University of Michigan to join our staff.

Lecturer Burdette Ogle has just received his Ph.D. and is now with the Shell Oil Co. Scott Greely takes his place on the staff as Associate. Incidentally, the title "Associate" is a new designation for "Lecturer" at Cal now.

U.C.L.A. NEWS

The 1951 UCLA Summer Camp is again located in the central Nevada area, north of Eureka. They are extending the previous work done in the Cortez Quadrangle area to the north. Drs. C. A. Nelson and D. I. Axelrod are in charge of the camp. Ed Bowman, Don Carlisle and Bill Daly round out the staff. Some 60 UCLA students and about 10 Pomona College men are wrestling with the many structural and stratigraphic problems in the area.

Drs. Popenoe and Tunell are holding down the fort at the UCLA campus this summer. The new geology building is nearing completion. The department expects to move between semesters in February 1952.

Dr. Cordell Durrell is touring the eastern states and Canada and expects to be back in September.

Dr. K. DeP. Watson is working for the Canadian Mining Co. in eastern Canada for the summer.

Dr. W. C. Putnam will spend August in the Mammoth Lake region.

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"The Tectonics of Middle North America," by Phillip B. King. Published by Princeton University Press, 1951.

SCIENTIFIC PUBLICATIONS - JOURNALS AND BULLETINSBull. G.S.A., June 1951

"Geology of the Cedar Hills, Utah," by Stuart L. Schoff. pp. 619-640.

Calif. Div. of Oil and Gas

"Summary of Operations, California Oil Fields," Vol. 36, No. 1, January-June, 1950 (Helm, Kern Bluff, Belridge Oil Fields).

TRADE JOURNALS AND MISCELLANEOUS MAGAZINESOil and Gas Journal - June 28, 1951

"Research 'Wildcat'," by Phillip C. Ingalls. p. 157.

CALENDAR

Aug. 2, 1951; Thurs. 6:30 p.m., CNGA, Dinner Meeting, Rio Hondo Country Club, Downey: Thomas T. Laughlin, "World's Fabulous Oil Country (Kuwait, Iran, Iraq)."

Aug. 7, 1951; Tues. 7:00 p.m., AAPG, Coastal Geological Society, Dinner Meeting, Barbara Hotel, Santa Barbara: Speaker to be announced.

Aug. 9, 1951; Thurs. 6:30 p.m., AIME, Junior Petroleum Group, Dinner Meeting, Rio Hondo Country Club, Downey: Henry M. Killian, "Application of Differential Thermal Analyses to Subsurface Correlation."

Aug. 13, 1951; Mon. 7:00 p.m., L.A. Forum, General Petroleum Auditorium: Prof. V. L. Vander Hoof, "Early Geologic Mapping in California," illustrated with slides of old geologic maps and points of historic interest.



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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

September, 1951

Number 9

ASSOCIATION ACTIVITIES

FORUM MEETING

The regular meeting of the Los Angeles Forum Group was held Monday, August 13, 1951, at 7:00 p.m., in the General Petroleum Auditorium. Mr. Mason Hill, Richfield Oil Corp., was chairman of this meeting and arranged a very interesting program.

Dr. V. L. Vander Hoof, Stanford University, presented a summary of "Early California Geologic Maps" to a large group of local geologists. Following a discussion of early California workers in geology and related sciences, Kodachrome slides were shown of early maps.

Early workers were impressed by the highly colored cherts, serpentine, and related rocks of the Franciscan in the San Francisco area. Consequently, one of the first formations to be shown on a map was the Franciscan. Printing the name of the rock type along its contact was an unusual method of delineating formational boundaries by some early workers.

Everyone present thoroughly enjoyed Dr. Vander-Hoof's talk and the ensuing discussion after the meeting indicated the interest we have in the early history of geology in California.

SACRAMENTO VALLEY CROSS SECTION

Bob White, Chairman for the Pacific Section of the Subcommittee on the Cenozoic of the Geologic Names and Correlations Committee of the A.A.P.G., announces the completion of the "Cenozoic Correlation Section from the Northside Mt. Diablo to Eastside Sacramento Valley through Rio Vista-Thornton-Lodi Gas Fields, California." This Section was prepared by the Sacramento Valley Committee composed of E. W. Clark, Chairman, C. C. Church, C. M. Cross, W. E. Dillon, L. A. Lewis, R. Orrenshall, and A. J. Solari.

The Pacific Section of the A.A.P.G. has underwritten the cost of the drafting and printing of the Section, and the reduction, assembly and reproduction of the Section was done through the courtesy of the Rapid Blue Print Company of Los Angeles.

Copies may be purchased after September 1st for \$1.00 per each from:

Jack W. Knight
British-American Oil Producing Co.
530 West Sixth Street
Los Angeles, California

John R. Griffiths
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Ventura, California

Tennant Brooks
Standard Oil Company
1800 Nineteenth Street
Bakersfield, California

Daniel J. Pickrell
Golden Gate Petroleum Company
San Mateo, California

W. Layton Stanton, Jr.
Union Oil Company
2711 Riverside Boulevard
Sacramento, California.

You are requested to call at the above addresses for your copy since there are inadequate facilities for mailing the Section, which is printed in two sheets, four feet in length. An additional charge will have to be made for mailing. The Section may also be purchased at local A.A.P.G. Geological Society meetings.

COASTAL GEOLOGICAL SOCIETY

The Coastal Geological Society met in Santa Barbara on August 7, 1951. W. H. Corey, Continental Oil Co. paleontologist, spoke on "Southern California Offshore Paleogeography." Bill showed colored slides depicting various highs in the offshore area during the Tertiary and explained his evidence and reasons for each. His talk aroused much comment and interest. He requested the listener's criticism on any portion of his work explaining that samples collected from this region are comparatively few and from an area which is larger than all the oil producing basins of Southern California. He has conferred with experts on various areas and openly invites anyone's suggestions or new evidences for possible changes in his maps.

Milton Loy of Schlumberger addressed the meeting on the subject of "Micrologging." He explained the salient features of the microlog by showing that where formations are permeable there is a thicker mudcake and mud penetration which results in a greater divergence in the resistivity curves on the microlog. In low permeability formations such as shales the mudcake is relatively thin and the resistivity curves are practically parallel. By various computations made from these logs a system of figuring a relative porosity and water saturation ratio has been devised. Mr. Loy illustrated this last point with two examples from the Santa Maria Basin. Both logs showed fractured shale but by the above method of computing water saturation it was shown that the well with the lower water saturation proved to be by far the best producer.

LOS ANGELES LUNCHEON

The first Fall Luncheon meeting will be held at the Rodger Young Auditorium, Thursday, September 6, 1951. Mr. Frank Parker, Signal Oil and Gas Company, will discuss the "Wyoming Field Conference." We hope Frank has adequate kodachrome coverage of the "Nugget" sand.

CENTRAL WYOMING FIELD CONFERENCE

A group of Pacific Section members headed by Frank A. Morgan, national president of the A.A.P.G., attended the 1951 running of the now famous Wyoming Field Conference. As usual the conference was most instructive and exceptionally well engineered.

Those attending from California included Frank Parker, Art Huey, Vince Vandiver, Martin Van Couvering, Pete Gardett, Stan Knouse, and Bob Anderson, the last-named is currently watching Signal's first drilling venture in the Rocky Mountains.

An enjoyable part of a visit to the Rocky Mountains is the renewal of friendships and the discovery of current activities of former Pacific Section people now located in this big country.

Don Curry of Shell was one of the principal speakers during the field trip.

Floyd Johnson of Honolulu left his new Salt Lake City office long enough to attend the meeting.

Dave Moore, Hancock's newly appointed manager of Rocky Mountain operations is hoping to attend the Pacific Section fall meeting.

Jim Olson is now in charge of Phillips' new office at Casper.

Paul Pustmueller and the Fremont Oil Co. are currently interested with Signal in its wildcat south of Rawlins.

Dave Sears of Shell reports housing in Casper still to be in a very "tight" condition.

Ed Simpson has a big smile on his face, undoubtedly a result of the Montana excitement, that being an area Ed has plugged for some years.

John Terpening, a recent U.C.L.A. student, is now working out of General Petroleum's Craig, Colorado, office.

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Salinas Representative:	James O'Flynn

Next Deadline September 24, 1951

W. K. Barker, formerly with Amerada in California, is now working for Union Pacific in the Rockies.

Max Krueger missed this conference, an unusual occurrence. It is understood that he was too busy in Montana-Dakota.

STANFORD NEWS

Twenty-seven students from Stanford have now reinforced the intercollegiate groups busily engaged in ferreting out Nevada's stratigraphic and structural secrets. The Stanford field class, under the direction of Dr. Robert R. Compton, spent the first four weeks of the summer mapping Coast Range geology in the vicinity of Lompoc, California. The second four weeks is being spent at Sand Springs, Nevada, just east of Fallon, where the class is mapping with plane tables and tying in underground mapping with surface geology.

WHICH WAY DID THEY GO?

Copies of this publication mailed to five Pacific Section members have been returned because of incorrect address. The missing members are C. F. Pavent, Ernest G. Hoskins, Ed. D. Lynton, R. H. Zinzer, and Luis Chappuis. Anyone knowing the whereabouts of any of these gentlemen would render us a service by notifying the Pacific Petroleum Geologist of their present addresses.

NEW RELIEF MAP OF CALIFORNIA

Announcement is made by Olaf P. Jenkins, Chief, Division of Mines, that a set of two maps, a shaded relief map and a geomorphic map of California are now available in limited quantity. These two maps are plates 1 and 2 of Bulletin 158, "Evolution of California's landscape," and are being distributed in advance of the release of the bulletin.

The relief map was prepared by a special technique of shading a topographic map, scale 1:1,000,000, in color, and reducing it photographically to the scale 1:2,000,000. The resultant three-color map depicts the natural provinces of California, with a clarity and accuracy heretofore achieved only by large-scale, three-dimensional relief models.

Included with the relief map is the geomorphic map of California on the same scale, originally published as a part of the Geologic Map of California. The geomorphic map shows the elevation of the land in terms of the conventional contour lines. It is an especially apt companion to the shaded relief map because it shows the geomorphic provinces, important faults, submarine topography, county boundaries, and cities.

The price of the set of maps is 75 cents. California residents should add 3% sales tax to their remittance.

PERSONAL ITEMS

George Feister of Union has been made divisional geologist for the Los Angeles basin with headquarters in Whittier.

"Frenchy" Dreyer, paleontologist for Union in Bakersfield, has been transferred to Dominguez. Harold Billman, who has been holding down the Sacramento office, will replace him.

Maurice Sklar has taken over the Union geophysical department in Bakersfield. He replaces John Sloat.

Jim Wylie, a Dartmouth graduate, has been taken on by Western Gulf at the Bakersfield office.

Standard has two newcomers at its Bakersfield office. R. E. "Dick" Shaffer, an M.A. from the University of West Virginia, and R. D. "Dick" Hovey, an M.A. from Harvard. Strangely enough, you can't recognize them by the accents.

Jack Beach of Oceanic had a new offspring on July 28. John Lee Beach weighed in at 7 lbs. 14 oz. Maybe Mendel was right.

W. N. "Bill" Schlax of Superior has been transferred to Amarillo, Texas.

Horace Harrington of Superior spent his vacation walking for fish. At Sequoia he averaged 7-2/3 miles per fish.

Manuel Mayuga, principal geologist of the Petroleum Division of the Long Beach Harbor Department, was recalled to active duty with the Air Force in May. His present address: Major Manuel N. Mayuga, USAF, AFO IN-C/RC, Directorate of Intelligence, Headquarters U.S. Air Force, Washington 25, D. C.

Tom Rothwell of Richfield is now menacing pedestrian traffic in Long Beach with his new Mercury station wagon.

Walter Record, who received his M.A. at Stanford this winter, is working in Nevada for Richfield.

H. Allen (Pat) Kelley is now regional geologist for the Bankline Oil Company in the Rocky Mountain area.

Al Vitt, active A.A.P.G. man here before his transfer to Casper, has been made acting manager, Rocky Mountain district, for Seaboard Oil Company. Philip Kistler, former district geologist for Seaboard at Cody, Wyoming, replaces Vitt as chief geologist, Rocky Mountain district.

Court Decius of Tide Water is reported retiring on September 1 as vice president and manager of exploration, a job he has held many years.

Chet Doyle has been made assistant chief petroleum engineer for General Petroleum Corporation. He formerly was General Petroleum's engineer for the San Joaquin Valley, with Taft headquarters.

Joe Hatheway, formerly geologist-engineer with Ed Pauley, has been recalled to duty with the Air Corps Reserve as meteorologist, so now its Captain Hatheway.

Don Davis, former editor of this column, has hung out his shingle. He now has a consulting office at 822-1/2 Moraga Drive, Los Angeles 49, phone number ARIZONA 78610.

Bill Greenwalt, Jr., has been transferred by Union to Orcutt, replacing Charles Manlove, who is being transferred to Union's Rocky Mountain Division.

Irving T. Schwade was led into the winner's circle in the Times' Criss-Cross Puzzle contest to receive a \$15.00 prize.

Warren Stoddard, a graduate in geology from U.S.C. in June, is now working in the Cuyama for Richfield.

Karl Arleth has a reason for ordering "Old Granddad" when he buys you a drink. He now is a grandfather on four counts, all three of his children having qualified as parents. Latest arrival is the daughter of Karl's daughter, Mrs. John Herbst, and was born at 1:00 A.M., August 13, 1951.

Ward Smith, accompanied by Dr. Wells of the U.S.G.S., was a recent San Francisco visitor. Dr. Wells has been working on the chromite deposits of southern Oregon and northern California, soon to be published by the California Department of Natural Resources.

Dr. Olaf Jenkins of the California Department of Natural Resources was a recent visitor to the San Francisco luncheon. He pulled the plug, however, in mentioning that he had to eat with the geologists because the Engineers Club was being repainted.

The San Francisco luncheon seems to have been taken over by Tide Water recently. Last week they were 6 strong with no other company offering competition.

San Francisco's Coral Reef was the scene of a special birthday party on August 11 for Bob Hacker, arranged by Roger Dungan, Tom Baldwin, and Willard Classen.

George Roth is starting fatherhood all over again with a daughter, Shelley, born June 22. George already has a married daughter and a 17-year old son. He wants to make it clear to all interested parties that all these children are by the same wife!

Gene Borax is the proud father of a daughter, Diane, 7 lbs. 9 oz., born August 8.

Gerry Rickels, with Union at Santa Paula, is celebrating the arrival on August 1 of his second son, Donald Keith, 6 lbs. 12 oz.

Hank Neel made a rapid recovery following treatment for a sudden kidney ailment.

NOTICE - ATTENTION - AHOY - READ THIS!!
ANNUAL DANCE of the Coast Geological Society will be held Friday, Sept. 21, 1951, at the Mar Monte Hotel in Santa Barbara. Here's a chance to get some value from your many contributions to the liquor raffles. All surplus funds will be used for refreshments at the dance. Other costs will be announced soon. Keep that date open.

Our sympathy is extended to the family of Bob Turner, who lost his life last month while working on one of the drilling wells in the Ramona field. Bob was a graduate student at California University, doing work on the rig for the summer, and had been on duty only a few hours when the accident occurred. His brother is with the California Division of Oil & Gas at Sacramento.

Spence Fine of Richfield, outstanding deep sea fisherman, recently invested in a fly-casting rod and tried his luck in the High Sierras. Was upset, though, when his wife caught the first fish with the new rod.

Charlie DeLancey of Humble didn't make all those commuter trips from Altadena to Santa Barbara for nothing, attending Coast Geological meetings. Fortune finally smiled, and he won a bottle of Harper's last meeting. Left the hotel with the contents intact, too!

Harry Augustus of General Petroleum has been transferred from Santa Maria to the Los Angeles office, where he will be district land man for the Los Angeles Basin and Ventura County.

Recent visitors there report seeing a sign on the San Gregorio Creek road reading "CAUTION: Union Oil Company geologist at work in area." Harold Fothergill and Bob Hacker deny any and all implications. Could this be some of Roger Dungan's skullduggery?

Gerald E. (Jerry) Knowles has been employed by the Richfield Oil Corp. and is now summering in Nevada. Jerry received his M.A. at Stanford in June.

Hans E. Thalmann has been appointed visiting professor of mineral sciences (especially micropaleontology) at the School of Mineral Sciences, Stanford University, Stanford, California. He will carry on his consulting business and will stay as a consulting micropaleontologist with International Petroleum Consultants, Inc., Pasadena.

Tom Barrow, Stanford Ph.D., is now working for the Humble Oil & Refining Company in California.

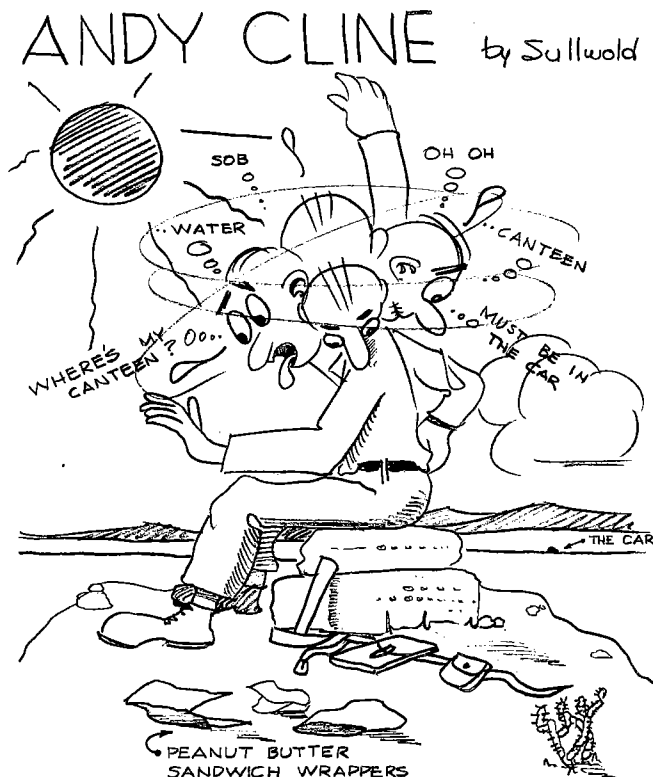
"Emmy" Matter, now directing British American's exploration in West Texas and New Mexico, spent a week at Balboa "skin diving" for outboard motors in the Bay.

Harold J. Buddenhagen, in charge of Shell's exploration program in the Northwest, is leaving October 1st for a year at The Hague after an extended tour of the company's operations in the United States and Canada.

Albert Gregersen, longtime Pacific Section member who has been directing Gulf's exploration in Denmark for the past few years, is being transferred to New York as of September 1st. His new job will be Government Relations Adviser to Gulf's Foreign Production Division.

R. S. "Spence" Hamilton and Charley Mahaffey, members of Humble's Land Department in California, have resigned effective September 15th and will operate as independents in the southwest Texas area, with headquarters in Corpus Christi.

Bob Kelley, of Continental, is now semi-settled in his new home at 814 Emory Street, Whittier.



Jim O'Flynn is now known as the "Lucky Irishman" in San Mateo County. Other geologists sat up nights in their cars awaiting a formation test on the Bell & Burden-Riskin well, but not Jim. He returned from a Tahoe vacation, arriving just as the bar was dropped for the test.

Deer season opened August 11 and few geologists have been seen in the San Mateo County hills since then. Seems all are somewhat behind in their office work.

Tom Baldwin is taking a "curtailed" vacation trip this summer, says he wants to relax. His present plans include visits to Tahoe, Yellowstone, Glacier, Banff, Grand Coulee, Pend Oreille, and the Redwoods.

CALENDAR

Sept. 6, 1951; Thurs., 12:00 noon, AAPG, Pacific Section Luncheon, Rodger Young Auditorium, Los Angeles: Frank Parker, "Summary of Wyoming Geological Association Field Trip in South Central Wyoming," with Kodachromes.

Sept. 6, 1951; Thurs., 6:30 p.m., CNGA, Dinner Meeting, Rio Hondo Country Club, Downey: S. T. Preston, "A Total Vaporization Method for the Determination of the Equivalent Vapor Volume of Pentanes Plus Fractions."

Sept. 11, 1951; Tues., 7:00 p.m., AAPG, San Joaquin Geological Society, Dinner Meeting, Hotel El Tejon, Bakersfield: Melvin J. Hill, "The Fruitvale Oil Field;" also an important business meeting, all members urged to attend.

Sept. 14, 1951; Fri., 7:00 p.m., SEPM, meeting place to be announced: Dr. Hans E. Thalmann, "Brackish Water Environment and its Foraminifera."

Sept. 17, 1951; Mon., 7:00 p.m., AAPG, Pacific Section Forum: Program and meeting place to be announced.

Sept. 18, 1951; Tues., 8:00 p.m., API, L.A. Basin Chapter, Shell Recreation Hall, Long Beach: J. J. Browne, Charles Yerby, "McMahon Jet Oil Well Pump;" also moving picture.

Sept. 18, 1951; Tues., 8:00 p.m., API, San Joaquin Valley Chapter, 11-C Camp, Taft: Speaker to be announced.

Sept. 19, 1951; Wed., 7:00 p.m., API, Coalinga-Kettleman Chapter, Country Club Polvadero: Speaker to be announced.

Sept. 24, 1951; Mon., 7:00 p.m., AIME, Joint Dinner Meeting, Rodger Young Auditorium, Los Angeles: Walter Mathesius, "Rise of Western Steel."

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Bull. G.S.A., July, 1951

- * "Barite Concretions from the Ocean Floor," by Roger Revelle and K. O. Emery, pp. 707-724.
- * "Stream Gradients and Monterey Sea Valley," by A. O. Woodford, pp. 799-852.

TRADE JOURNALS AND MISCELLANEOUS MAGAZINESOil and Gas Journal - August 16, 1951

- "Spraberry Drilling Activity Exceeds All Previous Plays in West Texas Area," by J. H. Bartley, pp. 126-135.

Oil and Gas Journal - August 2, 1951

- "Exploration and Drilling Activity at All-Time High in San Juan Basin," by Philip C. Ingalls, pp. 62-68, 89.

- "New Seismic Test - Use of Black Powder in Off-shore Seismic Operations," by D. H. Stormont, p. 40.

World Oil, Vol. 133, No. 1 - July, 1951

- "Williston Basin Oil Possibilities," by G. Wendell Smith, pp. 78-80.

* Pacific Coast Geology

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

October, 1951

Number 10

ASSOCIATION ACTIVITIES

LOS ANGELES FORUM

PACIFIC SECTION DIRECTORY

The directories of the Pacific Section members are now available. These booklets are of a handy pocket-size, bound in red leatherette with gold imprinted letters on the cover, and contain pictures of over 95% of the membership. The style of lettering used in the varitype process to present the essential personal data for each member can be easily duplicated by hand lettering for any necessary corrections. Extra space in each letter section and the indexing sheets will permit the addition of paste-on strips giving the pictures and data on new members or members missed.

This book actually cost about \$3.00 per copy, including the professional photography, but through the support of a number of loyal service companies, who are listed in a convenient directory at the back, the book can be offered at a sale price of \$2.00. Most members have already paid a \$1.00 deposit and need only pay an additional dollar to receive their copy. The books are available at the distribution points listed below, as well as at the fall meeting of the Pacific Section:

Long Beach: Art Huey, Hancock Oil Company
P. C. Box 810
Los Angeles: Jack Knight, British-American
Oil Producing Company,
530 West 6th Street
Bakersfield: Everett Pease, Sunray Oil
Corporation, 367 Haberfelde
Building.
Ventura: Pete Hall, Richfield Oil
Corporation, Route 1, Box 1060
San Francisco: Dan Pickrell, Golden Gate
Petroleum Company, 465 Cali-
fornia Street

Mail orders may be sent to Art Huey, but please enclose check for the required amount, plus ten cents for mailing.

Extra books are available for non-members, students, libraries, executives, service companies, etc., at the regular price of \$2.00.

LOS ANGELES LUNCHEON

The Pacific Section Los Angeles luncheon was held at the Rodger Young Auditorium September 6, 1951. Mr. Frank Parker of Signal Oil & Gas Co., summarized the highlights of the 1951 Wyoming Field Conference. The field trip area included portions of several sedimentary basins that revealed a great variety of geologic structures and stratigraphy.

The first day consisted of a review of fundamental Wyoming geology through close examination of the stratigraphic column and study of the Rawlins Uplift, a denuded structure which illustrates many of the buried features of producing fields or larger regional structures.

The second day was devoted to the comparatively small but deep and potentially important Hanna Basin, where subsurface structure is hidden by thousands of feet of late Cretaceous and Tertiary beds. The final day's route followed through a number of oil and gas fields along the south flank of the Sweetwater Uplift and into structurally complex areas.

The speaker's talk was well illustrated with Kodachromes and sprinkled with the Parker humorisms we all appreciate. Local geologists may obtain copies of the Guide Book "Sixth Annual Field Conference, South Central Wyoming" for \$6.00, spiral bound, and \$7.50, leatherette book bound. Address requests c/o Petroleum Information, Box 2452, Casper, Wyoming.

The Pacific Section Forum was held September 17, 1951, at the Edison Bldg. Auditorium. Mr. P. H. (Pete) Gardett, consultant, discussed "Recent Developments in Rocky Mountain Exploration". Oil development in the Rocky Mountains dates back to 1863, the year of discovery of the Florence field, Colorado. Since 1863 an estimated 2½ billion bbls. of oil have been found. This can be contrasted with 13 billion bbls. discovered in California during the same period. In the past three years 1,028 exploratory wells (4,350,000 feet) resulted in 212 discoveries or extensions in the Rocky Mountains as contrasted with 1,565 wells (6,050,000 feet) and 110 discoveries or extensions in California. From a barrels of oil discovered standpoint, it was estimated that California, with 1½ times the effort, has discovered 2½ times the amount of oil found in the Rocky Mountain area. Consequently, to date, the cost of discovering oil in California is higher than in the Rockies, but the reward is greater.

The majority of the land in the areas under exploration in the Rocky Mountains is public domain, with considerable railroad land in some areas. An average figure for large land deals is close to \$1 per acre, with smaller, more favorable blocks correspondingly higher. Usually the royalties are 12½% with possible 3 to 5% overrides. Considering the cost of exploration, land, and other factors, the cost of finding oil in the Rockies appears to be about the same as, or less than in California.

With a series of colored slides, Mr. Gardett presented the generalized stratigraphic section and examples of unusual structural features in the Rocky Mountain area.

Mr. William Booth, consultant, discussed "Magnetometer Exploration". The magnetometer was first used by oil companies about 20 years ago. Due to a series of unfavorable experiences, the magnetometer was shelved and forgotten. Recently, by using known exposures, well data, etc., faults, trends, or other structures causing magnetic anomalies have been traced into and across concealed areas. By using closely spaced observations and avoiding or correcting erroneous readings caused by pipelines, power lines, stream channels, etc., the magnetic anomalies obtained will fall into types that can be recognized such as faults, folds, changes in basement, or other structural features.

Bob Kelley, chairman, and the speakers are to be congratulated for a very interesting program.

BAKERSFIELD MEETING

The dinner meeting of the San Joaquin Valley Geological Society, held on Tuesday evening, September 7, featured a talk on the Fruitvale oil field by M. J. (Mel) Hill, chief geologist for the Western Gulf Oil Company. The many members in attendance thoroughly enjoyed Mel's excellent presentation of his paper, an abstract of which follows.

Fruitvale Field

The discovery of oil at Fruitvale in 1928 was made by the Pacific Eastern Production Company's KCL B-1 well in Section 21-29S-27E, as a result of drilling near the northwest edge of a slight topographic high. Production was established from two sands in the upper part of the Chanac formation, locally called the Kernco zone. Subsequent development from 1928 to 1936 proved over 2,000 acres from sands of the basal Etchegoin, locally

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Next Deadline October 22, 1951

called Fairhaven, and throughout the entire 1,200 foot thickness of the Chanac.

Two cross sections and a subsurface contour map were presented that illustrated the structural relationship. The oil is trapped on a broad west and southwest plunging nose closed by north-south and northwest-southeast faults. A unique feature is the fact that it is not necessary for sands to be offset against shales to effect a seal. The thin zone of gouge developed along the closing faults is sufficient to restrict migration.

Many production problems presented serious obstacles to normal operation. Detailed studies of the rocks and the production history revealed that water from drilling fluids had a disastrous effect on the reservoir rocks and was responsible for many of the production problems. A method of drilling and well completion was then developed, using an oil base drilling fluid. Since the inauguration of the new completion procedure in 1946, 41 wells have been redrilled and 11 new wells have been drilled, and the production history from these new completions has proved the value of the new method.

To date, slightly over 50,000,000 barrels of oil have been produced from the field and the current daily rate is approximately 9,500 barrels. An accurate estimation of the ultimate recovery is difficult, however, it is suggested that considerable additional oil can be economically produced using present methods. The application of secondary recovery methods has not been attempted, and a study of their practicability is currently in progress.

CAL TECH SUMMER CAMP

Cal Tech held its summer field camp in geology during June and July of 1951, in the Sacramento Mountains of south-central New Mexico, returning to the same area used for the 1950 camp. The group this summer consisted of 17 graduate and undergraduate students; a student camp manager, Bob Stanton; and two staff men, Dick Jahns and Lloyd Pray. The camp was located at the relatively cool elevation of 7,500 feet, amidst large quantities of food and drink, which contributed heavily toward camp morale. Most of the six-week period was devoted to field work and the preparation of a geologic report. The men mapped on 1/24,000 scale topographic base maps and aerial photographs.

The area consists largely of Paleozoic sedimentary rocks ranging in age from Ordovician to Permian, and of minor Tertiary intrusives. Bioherms occur locally in Mississippian and Pennsylvanian strata. Although the stratigraphy of the area contrasts markedly with that of the Calif-

ornia areas studied during the school year, the structure of the mapped area reflects several periods of deformation by both folding and faulting, and is not unlike some of the California Coast Ranges.

Near the close of the camp, five days were devoted to rounding out the regional picture of southeastern New Mexico and West Texas. The trip included the Franklin Mountains at El Paso, Juarez, the Capitan Reef Front in the Guadalupe Mountains, and the Caverns and potash mines in the Carlsbad, New Mexico area.

COASTAL GEOLOGICAL SOCIETY

The Coastal Geological Society held its third annual dinner dance Friday, September 21st, at the Mar Monte overlooking the blue Pacific in Santa Barbara. Fifty-six couples plus one "free lance" enjoyed free liquid refreshments at the pre-dinner cocktail party. Turkey with all the trimmings was served at the dinner (to enlighten those present who don't remember). A good time was had by all and the interest displayed by those present assures a fourth annual party next year.

CORRELATION CHART OF THE GREAT BASIN AREA

The Eastern Nevada Geological Society announces the preparation of a Correlation Chart of the Great Basin area, including suggested revisions in existing nomenclature to clarify conflicting terminology in various localities. The chart is ready for its final revision, discussion of which will take place at a meeting during the Pacific Section convention at the Ambassador Hotel on November 1 and 2, at a time and place to be announced in the convention program.

The Eastern Nevada Geological Society was formed in Ely, Nevada, in July, 1950, at which time John Wiese (Richfield Oil Corp.) was elected president, and W. R. Moran (Union Oil Co.) secretary-treasurer. The object of the society was merely to have a get-together for dinners and talks among the many geologists working in the Nevada area. Four meetings were held during 1950. At the first formal meeting in 1951, the idea of the correlation chart and text was proposed and a committee of flexible membership appointed. The committee has met seven times, and a great deal of time and work has gone into the chart and text which will be submitted for final approval at the November meeting. All those interested in commenting upon the final revision are invited to attend the meeting.

Plans for publishing the chart are not complete, but work is being carried forward to this end.

PERSONAL ITEMS

Paul Land of Honolulu figures he can chase bigger Yankee dollars with more education. He is going to take graduate work at the University of Michigan, beginning the fall semester.

Bill Thomas is more horse-shy than ever! Recently he gave his usual full attention to the job of swabbing a local rancher, during which time the rancher's horse proceeded to eat up Bill's seat covers and car seat, which had to be replaced. Bill says it's the first time he ever had his seat eaten out by the front end of a horse.

Roger Dungan of Continental has returned to his Ventura headquarters, after several months in San Mateo County. His departure from the northern country is said to have evoked many sighs from the Boots and Saddle gals.

Several AAPG members are knocking the little white ball around Pebble Beach this week. Maybe it's just a coincidence, but Gene Moser and Bill Winham are on vacation just now, and in that region.

The football season must be under way, for once again Pacific Section members are receiving pigskin schedules from Homer "Tiger Stock" Steiny.

Hal Bemis, formerly division geophysicist, has been appointed chief geophysicist for Standard at Bakersfield.

Jim O'Flynn, our Salinas Valley correspondent, now resides with his family at the "Midway cottage" on the Isenberg Ranch in the La Honda area, where Richfield currently is drilling.

Joe Parmenter is working as geologist for D. D. Feldman in Los Angeles. He formerly was reported, in error, as being located at Bakersfield.

"Silent Phil" Patton has been transferred from the Salt Lake City offices of Conoco to their Bakersfield office.

Charles Bishop, formerly with Texaco at Bakersfield, has followed his old boss, Ken Krammes, over to Independent Exploration. Otto Hackel, Roy Turner, and Jack Milburn, Vice-President of Independent, have left Bakersfield for the cooler climes of Santa Paula, and set up a coastal office for the company.

Joe Hatheway is back at his job of geological engineer for E. W. Pauley. Uncle Sam got pretty close when Joe was called to Travis Air Force Base, California, as a reserve officer, and even received a butch haircut. He obtained a six month "reprieve", however, and believes this means he won't be called to active duty.

Dan Pickrell, secretary of the San Francisco group, returned from the last Bakersfield meeting with a supply of the Pacific Coast AAPG directories. Art Huey is receiving compliments for a fine job on this much-needed book, which incidentally appears to be of special value to geologists' wives.

Ventura's Desk and Derrick group viewed, on August 14, the Shell film entitled "Birth of an Oil Field," and on September 1, the same girls visited the Oil Museum at Santa Paula.

Mia Ramsaur, of Standard's geological staff, attractive daughter of Lew Suverkrop, was married in Bakersfield on September 22, to Dr. Roger Alexander, Standard's Ph. D. from Princeton. They will live in Salt Lake City, to which point Roger was transferred in June.

Union Oil Company has announced location for Holy City #1, in Father Riker's Holy City, Santa Clara County. Structure is reported excellent, in view of the nearby nudist colony. The boys are wondering, though, whether the same security measures will be adopted as at Union's Teresa Hihn well (gate, guard, and password!).

Local Humble boys, by the way, are said to have backed heavily the Texas Aggie football team in L.A. last weekend, thus retrieving some prior losses in that line.

Tony Morris has returned from a visit to England in August, having attended the Festival of Britain. With Mrs. Morris he visited relatives, also some of the old haunts where he was stationed with the Royal Canadian Air Force during the war. Besides enjoying a side trip to Paris, Tony says the high point of his trip was the availability of good, cheap whisky.

Jack Porter, technical adviser to the Chilean Government in their extensive exploration and development program, has returned to southern California with Mrs. Porter for a three month's leave after a three year tour of duty in Punta Arenas.

Don Grinsfelder, Berkeley graduate and more recently with Western Geophysical, is now working in Richfield's geophysical department in Bakersfield.

Top claimant for the most unsuccessful vacation of the year is Ray Pearson, of Richfield, who barely got to Idaho when an angry appendix forced a hurried return. Ray is now recuperating from the appendectomy performed as soon as he reached Long Beach.

Frank Goetz of Standard is celebrating the arrival of his second son, Michael, born September 2.

Our sympathy is extended to Dick Ballantyne, Jr., editor of this column two years ago, who recently lost his father.

Vic Church, district geologist for Shell at Bakersfield, has resigned to accept a position with the Oceanic Oil Company. Vic will be senior geologist in Oceanic's Bakersfield office.

Charley Cross of Honolulu has just returned to San Francisco from a two week business trip to Canada.

Leo H. Moir, Jr., district geologist for Wilshire at Fillmore, has resigned to join the rapidly growing staff of the Oceanic Oil Company, and will make his headquarters in Ventura.

Mr. and Mrs. Dick Faggioli, Humble, are pleased to announce the birth of their second child, Justin Mark Faggioli, on August 26.

Bob Grouch, Richfield paleontologist in Long Beach, has resigned to accept a position with the Gulf in Houston and is being replaced by Dick Brooks, from Richfield's Bakersfield paleo. lab.



Merrill (Doug) Kinney is back in town after simmering in Washington this summer.

J. R. (Jack) Jackson, Humble Oil & Refining Co., has been transferred as geologist-in-charge of Humble's newly established office in Chico. Also in this office will be John Frick, Tom Barrow, and Allan Jackson. Allan, an L.S.U. graduate, is a newcomer to Humble and to California.

Al Gregersen, Government Relations Advisor for Gulf Oil Corporation's Foreign Production Division, is now in Los Angeles after a lengthy stay in Denmark where he directed Gulf's operations.

DON'T FORGET TO MAIL IN YOUR RESERVATION CARD FOR THE FALL CONVENTION DINNER DANCE!

CALENDAR

- Oct. 1, 1951; Mon., 7:00 p.m., Petroleum Engineering Seminar, Visual Aid Auditorium, Bakersfield Evening High School: Paul J. Howard, "Tax Problems and Corporate Arrangement of Oil Companies."
- Oct. 2, 1951; Tues., 7:00 p.m., AAPG, Coast Geological Society, Dinner Meeting, Barbara Hotel, Santa Barbara: Robert Herron, "Pre-Tertiary Stratigraphy of Northeastern Utah"; F. W. Hertel, "History of the Ventura Avenue Field"; nomination of officers for coming year.
- Oct. 4, 1951; Thurs., 12:00 noon, AAPG, Pacific Section Luncheon, Los Angeles: Speaker and meeting place to be announced.
- Oct. 4-5, 1951; CNGA, 26th Annual Fall Meeting, Los Angeles: Thursday - Forums at Alexandria Hotel; Friday - Meetings at Ambassador Hotel.
- Oct. 9, 1951; Tues., 7:00 p.m., AAPG, San Joaquin Geological Society, Dinner Meeting, El Tejon Hotel, Bakersfield: Speaker to be announced.
- Oct. 15, 1951; Mon., 7:00 p.m., Petroleum Engineering Seminar, Visual Aid Auditorium, Bakersfield Evening High School: "Use of Modern Oil Well Drilling Fluids," speaker to be announced.
- Oct. 17, 1951; Wed., 8:00 p.m., API, San Joaquin Chapter, Bakersfield Inn, Bakersfield: Fritz Huntsinger, "Experiences in Europe's Oil Business."
- Oct. 20-26, 1951; American Mining Congress, Western Annual Meeting, Biltmore Hotel, Los Angeles.
- Oct. 25-26, 1951; AIME, Pacific Petroleum Chapter, Annual Fall Meeting, with Metals and Minerals Branches participating, Elks Club, Los Angeles; Friday night, Minerals Branch, Dinner Dance, Mayfair Hotel, Los Angeles.
- Oct. 29, 1951; Mon., 7:00 p.m., Petroleum Engineering Seminar, Visual Aid Auditorium, Bakersfield Evening High School: F. R. Wade, "Well Completion Methods and Their Evaluation."

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- * "Type Moreno formation and overlying Eocene strata on the west side of the San Joaquin Valley, Fresno and Merced Counties, California," by Max B. Payne, 1951.

California Division of Mines, Special Report No. 11

- * Guide to the geology of Pfeiffer Big Sur State Park, Monterey County, California, by Gordon B. Cakeshott, 1951.

Journal of Paleontology - July, 1951

- * "Tertiary foraminifera from the Willapa River Valley of southwest Washington," by Weldon W. Rau, pp. 417-453.
- * "Upper Cretaceous foraminifera from the Carlsbad area, San Diego County, California," by Orville L. Bandy, pp. 488-513.

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- "Pennsylvanian reef and non-reef development in West Texas", by J. H. Bartley, pp. 142-145.

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- * "California's San Ardo Field again active," by D. H. Stormont, pp. 260-265.
- "Manitoba's role in Williston Basin's Drilling Program," by Polly Dearmond, pp. 281-287.

* Pacific Coast Geology

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 5

November, 1951

Number 11

ASSOCIATION ACTIVITIES

LOS ANGELES LUNCHEON

The regular luncheon was held at Rodger Young Auditorium, October 4, 1951. Mr. Vance Jenkins, Union Oil Co., discussed "Petroleum Industry's Research on Smog."

The major companies have jointly formed a committee to solve four points with regard to smog: the composition of smog, to what extent Los Angeles refineries are responsible for smog, what can be done to reduce refinery contributions to smog, and to compile data for release to public relations representatives of the industry.

It was found that smog composition varies from day to day. Essential components of smog samples can be grouped into three classes: hygroscopic substances capable of absorbing moisture from the air to form finely divided aerosols; carbon, tarry droplets, and metallic oxide particles all arising from combustion processes; and light scattering crystals such as compounds of Fe, Al, Si, Ca, etc. Smog chamber data indicate that eye irritation can be caused to some observers by a synthetic smog comprised of a mixture of air with nitric acid vapors, sulfur dioxide, sulfur trioxide, diesel fuel and lube oil vapors, lamp black and salt in amounts similar to that found at times in the Los Angeles atmosphere. The removal of any single constituent in the smog chamber does not cause a significant reduction of the eye irritating properties of the synthetic smog.

Contributors to smog in the Los Angeles area may essentially be grouped into industry, backyard incinerators and vehicles. In enforcing anti-smog regulations, the million incinerators burning 10,000 tons of material per day and the two million automotive vehicles burning 12,000 tons of fuel per day cannot be policed. Although industry is policed, the public is led to believe that industry, and especially the oil refinery, is the major contributor to smog.

Regardless of the relatively low amount of petroleum industry's contribution to smog, the refiners must look forward to additional expense for new and improved facilities for still further reducing their losses of hydrocarbon vapors. The industry would feel better about the whole matter if they knew their expenditures would really contribute to an appreciable reduction in smog.

COASTAL GEOLOGICAL SOCIETY

The Coastal Geological Society held their regular meeting at Santa Barbara, October 2, 1951. Mr. R. F. Herron, The Texas Co., summarized the pre-Tertiary stratigraphy of northeastern Utah. His talk was well illustrated with numerous Kodachrome pictures taken from the air.

Mr. Francis Hertel discussed the history of the Ventura Avenue oil field. His talk included early history of drilling progress in the field and development to the present time. The account of ownership of the various leases was quite enlightening. The long lists of past owners and partnerships clearly point up the reason for there being only wealthy lawyers in Ventura.

The Coastal Geological Society has elected its officers for the coming year. T. L. "Tom" Bailey, consultant, was elected president, and C. M. "Kit" Carson, Tide Water Associated, was chosen as vice-president. Bob Herron, The Texas Company, is the new treasurer, and Dick Shelton, Ohio Oil Company, will serve as secretary.

ACTIVITIES IN THE SAN JOAQUIN VALLEY

William Booth, consulting geophysicist from Ojai, presented his paper "Magnetometer Exploration" before 100 members and guests of the San Joaquin Geological Society on October 9. Mr. Booth, with the aid of simple diagrams, illustrated and explained the workings, uses, and limitations of magnetometer surveys. He pointed out that the magnetometer must be used as a tool to aid geologists rather than as a tool complete unto itself.

At the meeting the following officers were elected for the coming year: Bill Cortright of Tidewater, Chairman; Paul McGovney of Honolulu, Vice-Chairman; and Brad McMichael of Standard, Secretary-Treasurer.

ANYONE FOR DANCING?

The Pacific Section of the A.A.P.G. has tentative plans for a dinner dance to be held during the coming holiday season. The Oakmont Country Club will be the scene of this semi-formal dance, which is now scheduled for Saturday night, December 29th. It is hoped that a tariff-free cocktail party will precede the dance, and it is believed that the cost per couple will approximate \$9.00. Pacific Section members of the A.A.P.G., S.E.G., and S.E.P.M. will receive reservation cards in the mail during the latter part of November.

BRANNER CLUB MEETING

Dr. Roger Revelle, Director of Scripps Institution of Oceanography, will give an illustrated talk "Exploring the Deep Pacific" to members of the Branner Club at a dinner meeting to be held at the Athenaeum, Cal Tech, on Tuesday, December 4th. Reservations may be arranged through Joseph Birman, Chairman, Department of Geology, Occidental College.

ANNUAL FALL MEETING

The twenty-eighth annual meeting of the Pacific Section of the American Association of Petroleum Geologists, Society of Exploration Geophysicists, and Society of Economic Paleontologists and Mineralogists will be held at the Ambassador Hotel, Los Angeles, California, Thursday and Friday, November 1 and 2, 1951. Registration for the three societies will begin at 8:30 a.m. Thursday in the lobby of the Ambassador Theatre.

The general chairman of the convention committee is Joe B. Hudson, of the Humble Oil & Refining Company. Wallace Matjasic, Honolulu Oil Corporation, and Jack West, Seaboard Oil Company, are in charge of arrangements. Stanley G. Wissler, Union Oil Company, is in charge of the A.A.P.G. technical program and is assisted by R. Stanley Beck, consultant, and Lowell Redwine, Honolulu Oil Corporation. Ben Lupton, General Petroleum Corporation, is in charge of registration. Ted L. Bear, consultant, is the editor for the program. Lloyd Metzner, Signal Oil and Gas Company, is responsible for the sound equipment and facilities, while Robert B. Kelly, Continental Oil Company, is in charge of the projection. For the S.E.G., Flint Agee, United Geophysical Company, is chairman of the technical program and Furman Grimm, Humble Oil & Refining Company, is in charge of arrangements.

Louis J. Simon, The Texas Company, is chairman of the program for the S.E.P.M.

The program for the two-day meeting, as it appears in the official program, is reproduced below.

**EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

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Frank S. Parker	Vice-President
Jack W. Knight	Secretary-Treasurer
J. R. Pemberton	Past-President
Mason L. Hill	San Joaquin Representative

PACIFIC PETROLEUM GEOLOGIST

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San Francisco Representative:	Willard Classen
Coast Representative:	Louis Taylor
Salinas Representative:	James O'Flynn

Next Deadline November 26, 1951

Thursday Morning and Afternoon Joint Session

- 9:30 Address of Welcome - Frank B. Carter, General Petroleum Corporation, President of Pacific Section, A.A.P.G.
- 9:40 "Evaluation of Reported Late Tertiary Thrusting in Northeastern Nevada," John C. Hazzard and William R. Moran, Union Oil Company, Los Angeles.
- 10:00 "Geology and Exploration for Oil in the Huasna District, San Luis Obispo County," Gordon R. Bell, Western Gulf Oil Company, Santa Maria.
- 10:20 Nomination of Officers
- 10:40 "Geology of the Santa Cruz Mountains," Thomas A. Baldwin, Jergins Oil Company, San Ardo.
- 11:00 "Historical Background of the Geology of the Castaic-Newhall Basin," W. S. W. Kew, Consultant, San Francisco.
- 11:30 "A Formation of Late Miocene and Early Pliocene Age on the North Slope of the Santa Susana Mountains, California," Edward L. Winterer and David L. Durham, U.S. Geological Survey.
- 2:00 "A Philosophy of Oil Finding," Wallace E. Pratt, Carlsbad, New Mexico.
- 2:45 "Geology of the Northern Margin of the San Fernando Valley, Los Angeles County," Gordon B. Oakeshott, California State Division of Mines, San Francisco.
- 3:15 "East Ventura Basin Cross Section," James W. Sheller, State Exploration Company, Ojai.
- 4:00 "Castaic Junction Field, Los Angeles County," Hunter Yarborough, Humble Oil & Refining Company, Los Angeles.
- 4:20 "Geology of the Honor Rancho Oil Field, Los Angeles County," F. D. Bode and A. J. MacMillan, Jr., The Texas Company, Los Angeles.

Thursday Evening S.E.P.M. Dinner & Technical Session

- 7:00 "Stratigraphy and Correlation of the Ventura Pleistocene and Pliocene Strata," Manley L. Natland, Richfield Oil Corporation, Long Beach.

The annual S.E.P.M. Dinner will be held at the Mona Lisa Restaurant. Tickets cost \$3.00 and may be purchased during registration.

Friday Morning A.A.P.G. Session

- 9:00 "Correlation Section across the Los Angeles Basin," R. T. White, State Exploration Company, Los Angeles.
- 9:45 "Salinas Valley Cross Section," J. E. Kilkenny, Union Oil Company, Los Angeles.
- 10:30 "Southern San Joaquin Valley Cross Section," Paul McGovney, Honolulu Oil Corporation, Bakersfield.

- 11:30 "Geology of Elk Hills, Kern County," John C. Wells, Standard Oil Company of California, Elk Hills.

Friday Morning S.E.G. Session

- 9:00 "Isochron Interpretation Technique," E. D. Alcock, National Geophysical Company, Dallas, Texas.
- 9:30 "Seismic Exploration and our Natural Resources," Andreas B. Rechnitzer, The Scripps Institution of Oceanography, La Jolla.
- 10:00 "Pulse Propagation in a Non-Homogeneous Medium," W. W. Garvin, The California Research Corporation, La Habra.
- 10:30 "Frequency Analysis applied to Seismic Exploration," J. J. Jakosky and John J. Jakosky, Jr., International Geophysics Company, Los Angeles.
- 11:00 "Earth Tides," John T. Pettit, Institute of Geophysics, University of California, Los Angeles.
- 11:30 "A Report on the Brussels Meeting of the International Union of Geodesy and Geophysics," C. Hewitt Dix, California Institute of Technology.

Friday Afternoon Joint Session

- 2:00 "Geology of Tecolote Tunnel," Robert E. Trefzger, U.S. Bureau of Reclamation, Santa Barbara.
- 2:20 "Geology of the Belgian Anticline Field, McKittrick Area," Charles W. Porter, Pacific Western Oil Corporation, Bakersfield.
- 2:40 A.A.P.G. Business Meeting.
- 3:00 "Case History of Helm Oil Field, Fresno County," Curtis H. Johnson, General Petroleum Corporation, Los Angeles.
- 3:20 "Durham Gas Field," L. F. Malarin, Standard Oil Company of California, Bakersfield.
- 3:40 "Exploration Problems of the Williston Basin," K. E. Burg, Vice-President, Geophysical Service, Inc., Dallas, Texas.



YOU TOO ... REMEMBER ... ELECTIONS SOON

Luncheons

Thursday Noon

The A.A.P.G. luncheon will be held in the Embassy Room of the Ambassador Hotel. Tickets for the luncheon will be on sale during registration for \$3.00. Frank A. Morgan, President of the Association, will discuss activities of the Association.

Friday Noon

The S.E.G. luncheon will be held in the Gold Room of the Ambassador Hotel. Tickets for the luncheon will be on sale during registration for \$2.75.

Unofficial College Reunion luncheons are planned for Friday noon. Reservations may be made at the Registration Desk.

Dinner Dance

The Annual Semi-Formal Dinner Dance (dark suits acceptable) will be held in the Embassy Room of the Ambassador Friday evening. Dinner will be at 8:30 p.m. to 9:30 p.m. and dancing 9:30 p.m. to 1:30 a.m. Dinner will not be served after 9:30 p.m. All attending the convention are cordially invited. Tickets \$6.50 per person, on sale at Registration Desk until noon, Friday.

PERSONAL ITEMS

Fred A. Menken has been promoted from his post as manager, geological department, to become vice president and director of exploration for Tide Water Associated Oil Company, replacing Court Decius who retired September 1.

James E. Clark, who has been Coastal division manager for Shell in Ventura, is being transferred to Casper, Wyoming, where he will be manager of Shell's Rocky Mountain Division, including the Montana section of the Williston Basin.

Duncan McNaughton, popular U.S.C. geology professor, has resigned and now is with Gulf Oil Company at New Orleans investigating problems of salt dome structure. Later, he will make his headquarters at Pittsburgh.

Max B. Payne, district geologist for Signal Oil & Gas Company at Bakersfield, resigned to become manager for Natural Gas Corporation with San Francisco headquarters. Some of the other boys saw the blind newspaper ad which offered this job but they weren't smart enough to answer it as Max did!

J. Wagner has recently been employed by Union as geologist at Bakersfield. He received his M.A. from the University of California.

Jim Smith, geophysicist for Standard in Bakersfield, is leaving for Canada to work for Union as geophysicist with Calgary headquarters.

Jim McDonald, a recent geology graduate of U.C.L.A., has been employed by Humble Oil & Refining Company to assist Earl Bescher in handling scout work.

Bruce Robinson has been employed by Superior Oil Company as geologist in Bakersfield. He had been assisting Fred Green, consultant, there.

Cutler Webster is being transferred from Honolulu's Santa Barbara office to Bakersfield.

Vern Crackel has been employed as part-time geologist by Southern California Petroleum Corporation. He is taking his Master's degree in geology this year at U.C.L.A.

Victor M. Smith has been employed by General Petroleum Corporation as scout for the Los Angeles Basin. He recently obtained his M.A. degree in geology from U.C.L.A.

Glenn Bowes, who now lives in Calgary, attended his daughter's wedding in San Francisco on October 5, then visited his many friends in Los Angeles for about 5 days before returning to Canada.

Bob Atwill of Union Oil was here recently from his Midland, Texas, headquarters. Bob says Midland now is a way-station for Californians en route to and from other Texas fields.

Art Huey has become something of a traveling ambassador, what with his liaison trips by plane to Hancock's Casper and Midland offices. In connection with these trips, Art has managed to attend two recent field conferences, the San Juan Field Conference and the Southern Wyoming field trip.

Glen Ledingham says he appreciates the promotion which someone gave him in the A.A.P.G. directory, listing him as general manager for Western Gulf. He was in line for congratulations last March when he became manager of exploration for Gulf. He declines with thanks, however, the higher title. Incidentally, Glen has the problem of disposing of nine new, registered, Boxer puppies. Any dog fanciers around?

H. Allen (Pat) Kelley, who now is located in Casper, Wyoming, with Bankline Oil Company, was in Los Angeles recently on business.

Dick Haines of Continental now has a secretary in his Ventura office. It is said all applicants for this job were from out of town. Do you suppose --no, that couldn't be.

Dick Palmer, of The Texas Company at Bakersfield, is the proud father of a 10-lb. baby boy, the first youngster, born October 10th.

Ed Hendrick of Standard Oil recently underwent an operation at the Santa Monica Hospital. He now is recuperating at home.

Vince Vandiver has our sincere sympathy for a painful broken wrist. Worse than that is the fact that he now is known as the "Raffles" of San Marino. His exposure, and the injury, resulted from an attempt to break into his own home recently. Momentarily without a key, he tried to force a window, and crashed onto a cement curb protecting a ground ventilator.

Guy E. "Doc" Miller, assistant exploration manager for Shell, recently suffered a heart attack. He now is home from the hospital doing nicely, and should be up and about in a few weeks. He has our best wishes for a speedy recovery.

Stan Siegfus has our sympathy in the loss of his youngest brother, 44 years old, who passed away recently in Salt Lake City. Stan and another brother flew from here to attend the funeral in Salt Lake.

Dick Hovey, a recent addition to Standard's geological staff at Bakersfield, was married in Vermont on October 6, and has returned from his honeymoon. It seems Dick has a complaint about a \$45 plane charge for excess baggage, that being his wife's trousseau.

Someone borrowed Hank Neel's Buick Roadmaster recently, and parked it illegally in front of a Ventura bank. The police hauled it away when making room for the County Fair parade. Hank had to bail out his car and now the borrower won't pay Hank.

Ted Bear has skunk trouble. The dichondra lawn at his La Canada home seems to be a delectable repast for two skunks and all Ted's efforts to get rid of them are of no avail. Traps and guns are out because of the personal hazards in close quarters with the victims. Can anyone solve this for Ted before the problem multiplies?

Don Davis, consultant, is said to have assured himself of an oil strike in the new Turnbull - Meadows #1 well at Castaic when he located it directly over the pipe line of Richfield Oil Corporation. Won't have to go very deep, either.

Ed Hall of Union proved that lightning can strike twice. He won for the second time the bottle of Old Granddad at the Coastal Geological Society meeting. Nomination of officers preceded the drawing.

J. E. "Emmy" Matter now directs the exploratory campaign of the British-American Oil Producing Company throughout the United States in his new post of vice-president in charge of exploration. Emmy hopes to attend the Fall Meeting of the Pacific Section.

The Pacific Section wishes to extend its sincere sympathy to Mase Hill of Richfield, whose mother recently passed away.

Lou Heintz, formerly with the Union Pacific, has resigned to join the staff of the St. Anthony Oil Corporation.

Henry T. Beckwith, former A.A.P.G. member, passed away on October 5, 1951. The Pacific Section extends its sympathies to his family.

Bob Hacker of Union is in Holy City watching the Union well there.

Recent San Francisco luncheon visitors include Gladys Peyser, the Livermore cowgirl, Dick Stearns of Standard Oil, and Mike Rector and his side-kick Carlson from Union's Sacramento office.

Bob Orwig is a mere shadow of his former self these days having lost 30 pounds, thanks to his self-imposed high-protein diet.

CALENDAR

Nov. 1-2, 1951; AAPG-SEG-SEPM, Annual Fall Meeting, Ambassador Hotel, Los Angeles.

Nov. 12, 1951; Mon., 7:00 p.m., API, Petroleum Engineering Seminar, Bakersfield High School: J. S. Baker, "Oil Well Log Interpretation."

Nov. 13, 1951; Tues., 7:00 p.m., AAPG, San Joaquin Geological Society, El Tejon Hotel, Bakersfield: Otto Hackel, "Humboldt County."

Nov. 19, 1951; Mon., 7:00 p.m., AAPG, Pacific Section Forum, General Petroleum Auditorium, Los Angeles: Ed Wellbaum, Chairman; Dr. Clemens A. Nelson, Professor of Geology, U.C.L.A., "U.C.L.A. Summer Field Camps in Nevada."

Nov. 20, 1951; Tues., 8:00 p.m., API, San Joaquin Valley Chapter, Standard 11-C Camp, Taft: Speaker to be announced. NOTE: A dinner in connection with the meeting, open to entire membership, will be held at the Petroleum Club, Taft, 6:30 p.m.

Nov. 26, 1951; Mon., 7:00 p.m., API, Petroleum Engineering Seminar, Bakersfield High School: M. E. Loy, "Oil Well Log Interpretation."

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Bull. G.S.A., September, 1951

- * "Engineering geology of San Francisco Bay, California," by P. D. Trask and J. W. Rolston, pp. 1079-1110.

"Geologic history of sea water: an attempt to state the problem," by W. W. Rubey, pp. 1111-1148.

Journal of Sedimentary Petrology

"Occurrence and lithologic associations of evaporites in the United States," by W. C. Krumbein, June, 1951, pp. 63-81.

- * "Playa sediments of Rosamond Dry Lake, California," by W. B. Hamilton, September, 1951, pp. 147-150.

- * "The sediments of Lake Elsinore, Riverside County, California," by J. F. Mann, Jr., September, 1951, pp. 151-161.

TRADE JOURNALS AND MISCELLANEOUS MAGAZINES

World Oil, Vol. 133, No. 5 - October, 1951

"Oil is how you find it," by R. W. Wheeler, Part I, pp. 93-99.

BOOKS

"The origin of the earth," by W. M. Smart, Cambridge University Press (London), 1951.

- * Pacific Coast Geology

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Volume 5

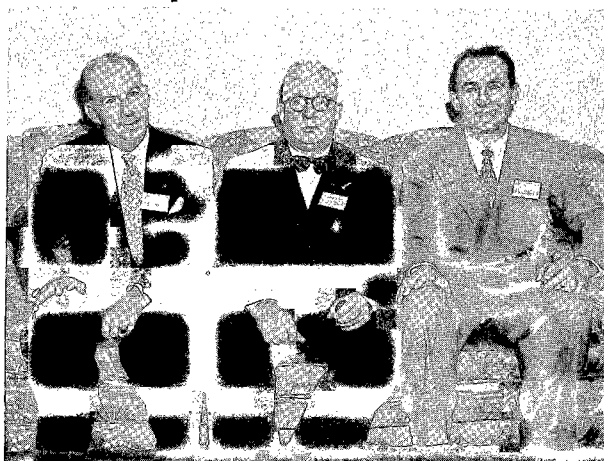
December 1951

No. 12

ASSOCIATION ACTIVITIES

PACIFIC SECTION OFFICERS

Flanked on his left by the new Vice-President, Harold Sullwold, and on his right by Secretary-Treasurer, Rufus Smith, the new President of the Pacific Section, Homer J. Steiny of the Tidewater Associated Oil Co., beams at the membership.



Prexy Steiny has made the following appointments for the coming year:
San Joaquin Valley Representative in the Executive Committee - Mel Hill
Chairman Distinguished Lecturer Committee - Herschel Driver
Editor, Pacific Petroleum Geologist - Bob Maynard

SALINAS VALLEY MEETING

An informal get-to-gether of geologists who are interested in the Salinas Valley area will be held on Tuesday evening, December 4th, at the Paso Robles Inn in Paso Robles.

The subject of the discussion will be a detailed study of the Salinas Valley cross sections which were presented at the recent Pacific Section Convention. The discussion will be led by Tom Baldwin of the Jergins Oil Co. assisted by as many of the contributing authors of the material as may be present at the meeting. Other geologists who have worked on this AAPG sponsored project are John Kilkenny, Dick Thorup, John Fackler, and Alex Tarbert.

In connection with the meeting the cores of several recent Salinas Valley wildcat wells will be opened for inspection by the visiting geologists.

SEPM OFFICERS

The Pacific Section SEPM sent off its election train with a full head of steam and came up with President W. T. Rothwell, Richfield Oil Corp., Long Beach, and Secretary-Treasurer James L. Cowell, Shell Oil Co., Ventura. Not one opposing vote was cast, thus reaffirming the SEPM solid front.

BAKERSFIELD MEETING

Some 85 members of the San Joaquin Valley Geological Society gathered at the El Tejon Hotel in Bakersfield last Nov. 13th to hear Otto Hackel, District Geologist for Independent Exploration Co. present a paper entitled "The Geology of Humboldt County."

In addition to a thorough treatment of the regional geology Mr. Hackel covered the history of drilling in the area and presented much evidence warranting further exploration in this petroliferous province.

LOS ANGELES FORUM

The Pacific Section Forum meeting was held November 19, 1951, in the General Petroleum auditorium with Ed. Wellbaum, Kern Oil Company, as chairman.

Dr. C. A. Nelson of U.C.L.A. spoke on U.C.L.A. Geology Field Camps conducted the past three years in central Nevada. A summary of camp proceedings and problems was given, followed by an outline of the methods of instruction. Parties of 3 or 4 students are assigned a strip about 2 miles wide and 15 miles long with complete overlap between adjacent parties. Visitation by instructors is kept to a minimum. Weekly lectures are held on economic geology, physiography, and related subjects.

Students primarily interested in mining geology are given a slightly different course to include underground mapping and mine examination reports.

The second paper of the evening was presented by Vernon L. King, consultant in Los Angeles, entitled "The Recent San Juan Basin Field Conference."

The San Juan Basin is roughly circular and includes an area of almost 20,000 square miles in northwestern New Mexico, northeastern Arizona and southwestern Colorado.

Natural gas is the most important product although a small but increasing production of high gravity crude oil contributes about one quarter of the combined value of production.

The central part of the basin is covered with early Tertiary rocks, which are surrounded by a more or less circular outcrop of Cretaceous beds in a bewildering variety of facies changes and marine and non-marine intertonguing. Paleozoic and pre-Cambrian rocks crop out in the uplift areas or along the steeply upturned edges of the basin. Tertiary and Quaternary volcanic plugs, dikes and associated flows are scattered along marginal parts of the basin.

SEG OFFICERS

Wally Matjasic, Honolulu, Los Angeles, was elected President of SEG, Pacific Section. Dave H. Scott, Texaco, Los Angeles, was named Vice President for the southern district; Bob Galeski, Honolulu, Bakersfield, was elected Vice President for the northern district. Maury Sklar, Union, Bakersfield, will be Secretary-Treasurer.

EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Homer J. Steiny	President
Harold Sullwold	Vice-President
Rufus M. Smith	Secretary-Treasurer
Frank B. Carter	Past-President
Mel Hill	San Joaquin Representative

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San Francisco Representative:	Bob Anderson
Coast Representative:	Bob Herron
Salinas Representative:	Dick Thorup

Next Deadline December 31, 1951

AAPG-SEG-SEPM
Holiday Dinner Dance

Circle the date, Saturday, December 29th for the jointly sponsored Holiday Dinner Dance at the Oakmont Country Club in Glendale. The facilities of the entire club have been reserved for the evening, which starts at 7:00 p.m. with a complimentary cocktail party given by Western Geophysical Company. A prime rib dinner will be served from 8 to 9 o'clock, followed by a semi-formal dance (dark suits acceptable) with music by Sidney Zaid's Orchestra. The charge for the dinner dance will be \$4.50 per person. Reservation cards are in the mail. Plan the size of your table now (8 to 16 persons) and appoint one person responsible for collecting and sending in the checks together with a single reservation card listing the names of all persons at the table. These reservation cards should reach John Kilkenny, Union Oil Company, 617 W. 7th St., Los Angeles, by Friday, December 14th. He will allocate table space and mail the tickets back to the table head. The dance committee, headed by Joe Hudson, has found it desirable, due to space requirements, to limit reservations to the first three hundred received by John Kilkenny.

CONVENTION PHOTOS

Various events and personalities at the Fall Convention were recorded on film by Hal Coop. Some 19 photographs are being assembled in album form by Joe Hatheway. These pictures will be available and on display in the near future. Price 65¢ each.

CONVENTION STATISTICS

	1949	1950	1951
Registered at Meeting	625	517	683
Dues Paid	?	481	568
AAPG Luncheon	373	396	400
Dinner Dance	428	428	555

S.E.P.M. PAPERS FOR NATIONAL MEETING

President Thomas H. Philpott has appointed Dr. K. O. Emery, Geological Department, University of Southern California, program chairman for the S.E.P.M. Members planning to submit papers should notify the program chairman by December 15, 1951, of the title and length of their papers. Typewritten abstracts, double spaced and in duplicate, are due on or before January 1, 1952.

BAKERSFIELD SCOUT PARTY

The Spanish Ballroom of the El Tejon Hotel in Bakersfield will be the scene of the San Joaquin Valley Scouts Annual Christmas Party. The date - December 14, 1951. Barney Barnard of Richfield is in charge of arrangements and "Young in Heart" Henry Clark of G.P. has promised true Christmas Cheer in the form of a Tree. All winners, diners and boys with green eye shades must have five simoleans in the hands of Mac McCombs, Seaboard, by December 5th.

PERSONAL ITEMS

IN MEMORIAM
Henry T. Beckwith

The many friends and associates of Henry T. Beckwith, formerly associated with the consulting firm of Furgeson, Beckwith and Simons, are grieved to learn of his death in Pasadena at the age of sixty nine. He was a member of both the AAPG and AIME and was active both in mining and oil in California.

Max Payne of Natural Gas Corporation was a recent visitor at the San Francisco luncheon.

Bob ("Water-Well") Williams of Santa Barbara was accused of promoting his own business recently when he attended the most recent San Francisco luncheon. Seems he brought plenty of rain with him.

Joe LeConte, Richfield's wild-life expert, is trying to round up some San Joaquin geese hunters, to accept the kind invitation of Mr. Teharel Sartain (now there was a core party!) to hunt on his ranch near Colusa. Guns must be taken.

C. M. ("Kit") Carson, Tidewater's genial Paleontologist at Ventura, recently became a grandfather for the first time. With three charming daughters, but no sons, Kit and Mrs. Carson are proud of the fact that the grandchild is a BOY! Mrs. Jack Jeffcoat, the mother, is their daughter Carmen.

James R. Jackson, Jr., Humble Geologist, and Norine Moats, secretary in Humble's Los Angeles office, will be married December 14. They will make their home in Chico, California.

Homer Steiny's youngest son, Tom, was married on November 21, to Miss Marjorie Bauersfeld, at Rosewood Farm, home of the bride's parents in Mandeville Canyon. Homer's other son, Homer Jr. of San Francisco, stood as best man for Tom. The wedding was followed by a champagne supper in the colorful patio of the Bauersfeld home.

Sam Stewart is reported to have reaped rich financial returns from the stunning success of the UCLA football team this season. Nothing like backing the old alma mater! (Or is there?)

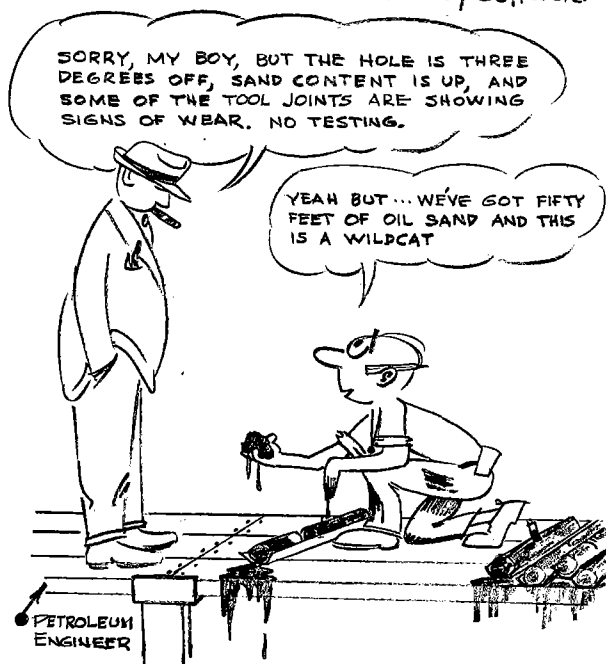
Bill Bishop of Richfield has been transferred from Bakersfield to the Ventura office. He will do field geology in the Ventura area.

Bob Hacker of Union has been transferred from the Santa Cruz area to the Santa Paula office. The San Francisco luncheon group hopes he won't stay away from there too long.

Charlie Jennings, M.A. from UCLA, is employed as Junior Mining Geologist with the Department of Natural Resources, Division of Mines, in San Francisco.

Bob Orwig, G.P., "the mere shadow of his former self", has recently sold his Bakersfield home. Could this be indicative of a forthcoming move?

ANDY CLINE by suilwold



Stanford School of Mineral Sciences held open house November 16, from 4 to 10 p.m. There were over 500 visitors, who enjoyed the numerous exhibits. Among those present were: John E. (Brick) Elliott from Austin, Texas; James I. Miller, Class of '10, formerly Manager for U.P. in South America; Mr. and Mrs. George MacLeod (she formerly was Gerta Fisher). Both were geology majors, and he now is with Fisher Research Laboratory, Inc. in Palo Alto; From San Francisco: Fred A. Menken, Vice-President, Tidewater; Earl Dillon; Honolulu's Herb McMasters and Charles Cross; Olaf P. Jenkins of the California Division of Mines and Henry Salvatori, President of Western Geophysical Company.

CONVENTION NOTES: Two attractive young ladies, one representing Shell and one from British-American, were registration helpers this year for the first time. While trying to find Rapid Blue Print's hospitality room, they took over a beautiful cottage, enjoyed hors d'oeuvres alone, and waved to late arrivals from the balcony. The crowd failed to arrive, however, and they discovered they were in an insurance man's room - his party had not yet begun! They probably needed some refreshment when they did find the Rapid hangout nearby.

Dr. Claude E. Zobell, after presenting a paper on the role of bacteria in the biogenesis of petroleum at the Third World Petroleum Congress in the Hague, last May, proceeded to Manila to join the GALATHEA Deep Sea Expedition between Japan and Australasia. Enroute he discussed the subject of his paper with audiences in Rome, Cairo, Calcutta, Manila and Melbourne.

Howard Samsel, Union Oil Co., Whittier, awoke the other morning to discover that during the night burglars had ransacked the house. Among the missing articles were Howard's pants, later found discarded a block away. Gone from the pockets was 15 cents. Fortunately, the entire loss was covered by insurance.

Bill Putnam, UCLA, probably has a sore sacroiliac from twisting in his seat as Continental Drift was discussed at a recent meeting.

Ralph Brodek resigned from Western Gulf to accept a position as assistant to the manager of the Oil Department, Kern County Land Company.

Frank Noble, Union Oil Co., has been transferred to the Santa Cruz area.

Max Eastman, formerly with the Navy at Elk Hills is now Vice-President and Manager of Field operations for Reserve Oil and Gas Company.

E. L. "Swede" Erickson, Mark Miller and Bob Kelly were busy last week moving into Continental's new offices at 1007 National Oil Building, 609 S. Grand, Los Angeles 17.

John Daly has announced the opening of his consulting office in Midland. After a long tour of duty with Shell in California John went to Texas for Honolulu. He was later with General Geophysical there prior to starting out for himself.

President Frank Morgan continued his record breaking attendance of Geological Meetings along with Association business during October and November. After meetings of the Tulsa, Dallas, Fort Worth and Houston Societies in mid-October, came the Regional and fall executive committee meetings in Austin. Following the early November Pacific Section Meeting in Los Angeles he visited Tulsa on Association business, enroute to the API and GSA meetings in Chicago and Detroit respectively.

The latter was followed, accompanied by Mrs. Morgan, by attendance at the Gulf Coast Societies meetings in New Orleans, a meeting in Caracas with the Asociacion Venezolana de Geologia and returned to Los Angeles via Central America and Mexico. President Morgan addressed the various meetings with a series of talks on "Geologic Fact Finding", "The Business of Oil Finding", and discussions of Association Business.

Al Solari has been made Senior Exploration Geologist for Standard, effective 12-1-51. Karl Arleth has been moved from Los Angeles to San Francisco, where he will be Senior Development Geologist. Harold Rader succeeds Arleth here as District Development Geologist, Los Angeles Basin and Coastal areas. Congratulations to some swell guys, on their move up the ladder, and to their Company, for recognizing merit.

Wayne M. (Bud) Smith, who for many years was Manager of Exploration for Wilshire Oil Company, and with Barnsdall before that, has become Chief Geologist for Bell Petroleum Company, with headquarters at Bel-Air, effective 11-12-51.

Bob McConville is the new District Geologist for Signal Oil & Gas in Bakersfield.

Tom Llewellyn, formerly with Wilshire in Fillmore, now is Geologist for Honolulu in its Bakersfield office.

Bob Beckwith, ex-baseball star, has been appointed Paleontologist in Union's Bakersfield office. Bob's presence will be missed by the regular sample grabbers at the Valley core parties.

Dave Costello, formerly Geologist with Tidewater in San Francisco, now is working for the U. S. Air Force, flying out of Colorado Springs.

A going-away party (steak dinner) was held for Bill Thomas, of Shell, on November 13 at the Colonial House, Oxnard, when sixteen of Bill's many friends presented him with a brief case. He left last week for Casper, Wyoming, where he will serve as Shell's Chief Scout for the Rocky Mountain Division. He will be succeeded by James J. Jackson, as Shell's Coastal Division Scout, at Ventura.

'BIBLIOGRAPHY OF RECENT PUBLICATIONS

SCIENTIFIC PUBLICATIONS - JOURNALS AND BULLETINS

Journal of Petroleum Technology - October 1951

"Application of Differential Thermal Analysis to Sub-Surface Correlation." D. B. O'Neill. Page 14.

Billings Geological Society

"Second Annual Field Conference - September 7, 8, 9, 1951." (Guide Book)

Geological Society of America. Bulletin - October, 1951.

* "Submarine Geology of the Gulf of Alaska." Henry W. Menard and Robert S. Dietz. pp.1263 - 1286.

Society of Economic Paleontologists and Mineralogists - Special Publication No. 2.

* "Turbidity Currents and the Transportation of Coarse Sediments to Deep Water". A Symposium, 1951.

TRADE JOURNALS AND MISCELLANEOUS MAGAZINES

Petroleum World - November 1951.

* "Ventura County, Past and Present." Joe Paul, Jr. pp. 16, 17.

The Oil and Gas Journal - November 8, 1951.

"Why Clay Content Affects Electric Logs of Reservoir Sands." Joseph A. Kornfeld. Page 333.

BOOKS

"Petroleum Conservation." Edited by Stuart E. Buckley. Published by the A.I.M.M.E. 1951.

"Rocky Mountain Petroleum Directory." 1952. Petroleum Publishers, Inc., 724 Cooper Building, Denver, Colorado. Price - \$1.50.

* Pacific Coast Geology

CALENDAR

Dec. 4, 1951, Tues., 7:00 p.m., Informal Geological Gathering to discuss Salinas Valley Area, Paso Robles Inn, Paso Robles.

Dec. 4, 1951: Tues., 6:00 p.m., Branner Club Dinner Meeting, Caltech Athenaeum, Pasadena: Dr. Roger Revelle, Director of Scripps Institution of Oceanography, "Exploring the Deep Pacific."

Dec. 5, 1951: Wed., 6:30 p.m., AIME, Southern California Section Joint Dinner Meeting, Roger Young Auditorium, Los Angeles: Col. A. C. Miller, Caltech, "Strategic Importance of the Near East."

Dec. 6, 1951: Thurs., 12:00 noon, AAPG, Pacific Section Luncheon, Roger Young Auditorium, Los Angeles: Dr. Francis P. Shepard, Scripps Institution of Oceanography, "Recent Sediments of North Gulf of Mexico" (API Project #51).

Dec. 8-9, 1951: Sat. & Sun., SEPM Field Trip to Death Valley. Starts at Stovepipe Wells Hotel, 6:00 a.m., Sat. Conducted by James McAllister, U.S.G.S.

Dec. 10, 1951, Tues., 7:00 p.m., API, Petroleum Engineering Seminar, KOUHS, Visual Aids Auditorium, Bakersfield, William F. Bates, "Factors in the Design of Drilling Equipment."

Dec. 12, 1951: Wed., 7:30 p.m., Western Oil & Gas Association, "Hi Jenks", Biltmore Bowl.

Dec. 13, 1951: Thurs., SEG Luncheon, time and place to be announced: Curtis Johnson, SEG Vice President, "Highlights of 5th Annual Midwestern Meeting of S.E.G. at Dallas, Texas."

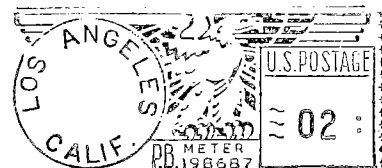
Dec. 13, 1951: Thurs., 6:30 p.m., AIME Junior Petroleum Dinner Meeting, Rio Hondo Country Club, Downey: Mr. Read Winterburn, Chief Petroleum Engineer, Union Pacific Railroad, "East Los Angeles Oil Field."

Dec. 14, 1951, Fri., 8:00 p.m., San Joaquin Valley Scouts Christmas Party, Spanish Ballroom, Hotel El Tejon, Bakersfield.

Dec. 29, 1951: Sat., 8:00 p.m., AAPG, Pacific Section First Annual Christmas Dinner Dance, Oakmont Country Club, Glendale: Semiformal.

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